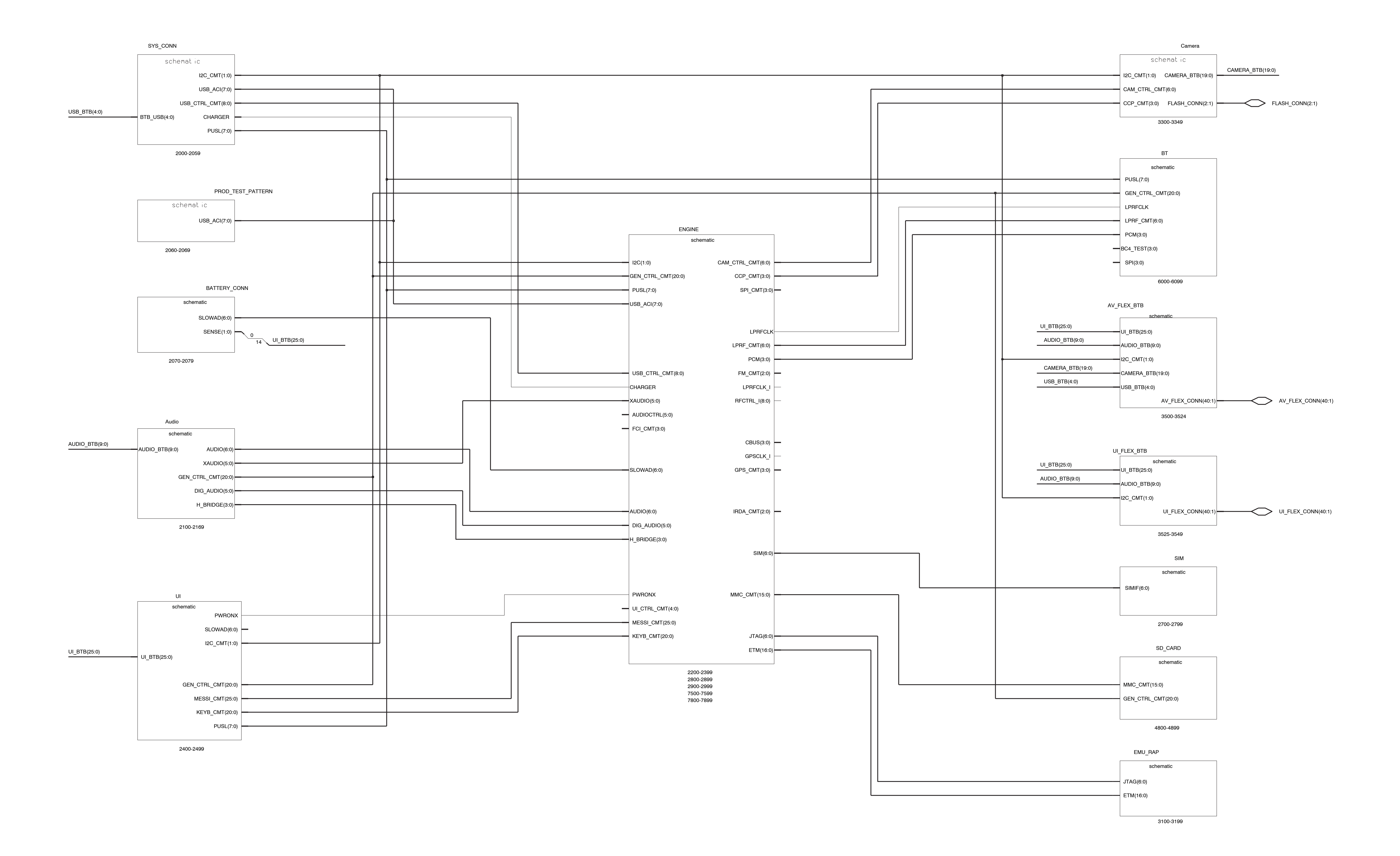
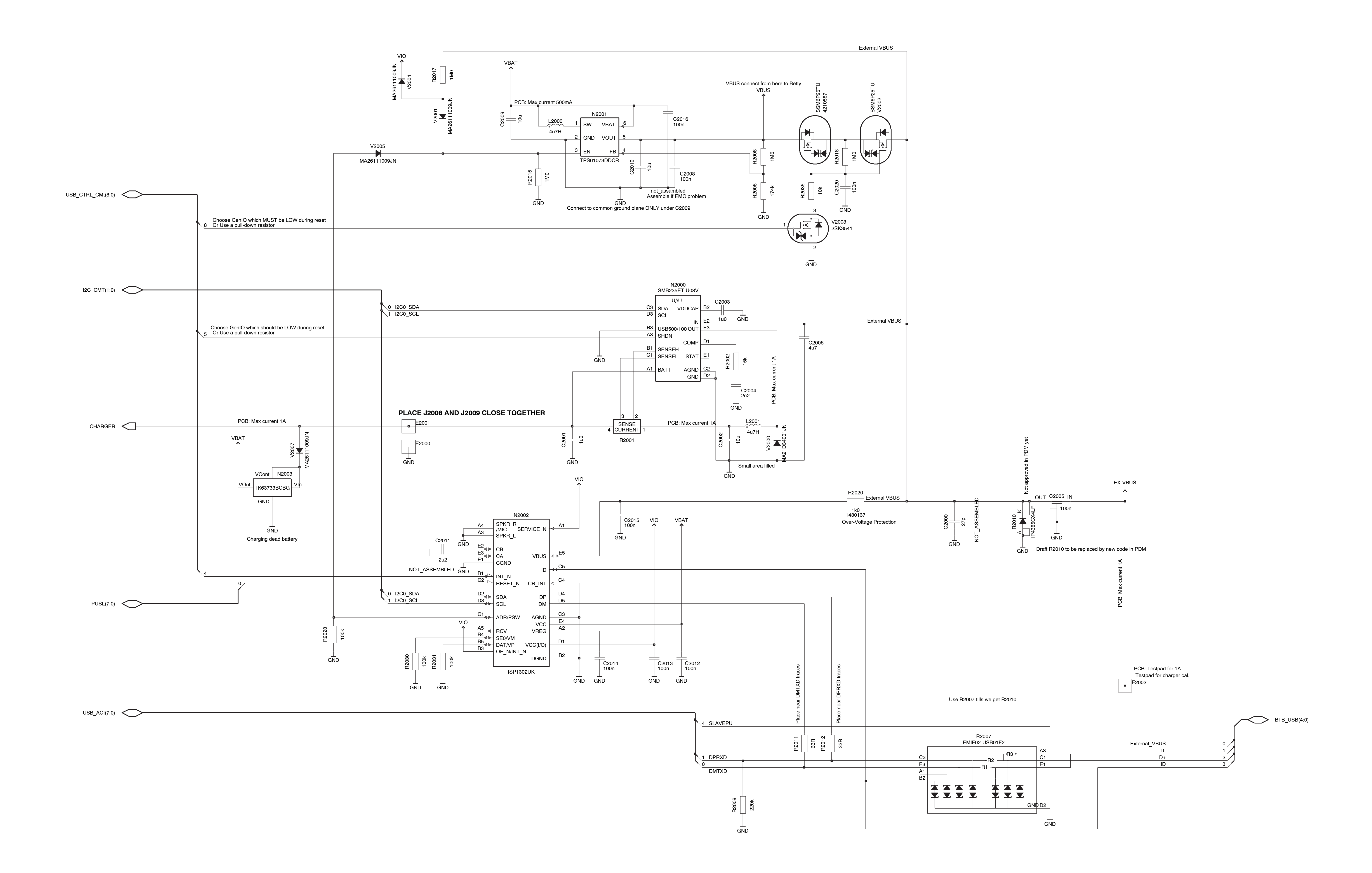
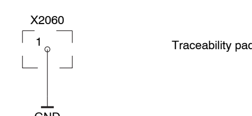
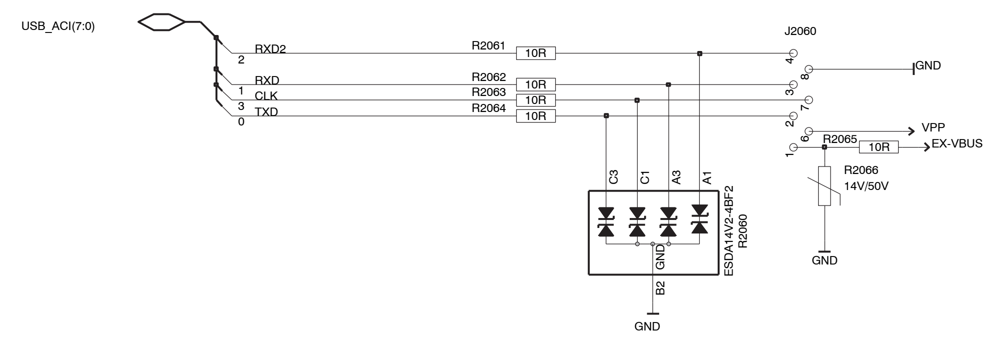

SYS_CONN
schematic
I2C_CMT(1:0)
USB_ACI(7:0)
USB_CTRL_CMT(8:0)
USB_BTB(4:0)
BTB_USB(4:0)
CHARGER
PUSL(7:0)
2000-2059
PROD_TEST_PATTERN
schematic
USB_ACI(7:0)
2060-2069
BATTERY_CONN
schematic
SLOWAD(6:0)
SENSE(1:0)
0
14
UI_BTB(25:0)
2070-2079
Audio
schematic
AUDIO_BTB(9:0)
AUDIO_BTB(9:0)
AUDIO(6:0)
XAUDIO(5:0)
GEN_CTRL_CMT(20:0)
DIG_AUDIO(5:0)
H_BRIDGE(3:0)
2100-2169
UI
schematic
PWRONX
SLOWAD(6:0)
I2C_CMT(1:0)
UI_BTB(25:0)
UI_BTB(25:0)
GEN_CTRL_CMT(20:0)
MESSI_CMT(25:0)
KEYB_CMT(20:0)
PUSL(7:0)
2400-2499
ENGINE
schematic
I2C(1:0)
GEN_CTRL_CMT(20:0)
PUSL(7:0)
USB_ACI(7:0)
USB_CTRL_CMT(8:0)
CHARGER
XAUDIO(5:0)
AUDIOCTRL(5:0)
FCI_CMT(3:0)
SLOWAD(6:0)
AUDIO(6:0)
DIG_AUDIO(5:0)
H_BRIDGE(3:0)
PWRONX
UI_CTRL_CMT(4:0)
MESSI_CMT(25:0)
KEYB_CMT(20:0)
CAM_CTRL_CMT(6:0)
CCP_CMT(3:0)
SPI_CMT(3:0)
LPRFCLK
LPRF_CMT(6:0)
PCM(3:0)
FM_CMT(2:0)
LPRFCLK_I
RFCTRL_I(8:0)
CBUS(3:0)
GPSCLK_I
GPS_CMT(3:0)
IRDA_CMT(2:0)
SIM(6:0)
MMC_CMT(15:0)
JTAG(6:0)
ETM(16:0)
2200-2399
2800-2899
2900-2999
7500-7599
7800-7899
Camera
schematic
I2C_CMT(1:0)
CAMERA_BTB(19:0)
CAMERA_BTB(19:0)
CAM_CTRL_CMT(6:0)
CCP_CMT(3:0)
FLASH_CONN(2:1)
FLASH_CONN(2:1)
3300-3349
BT
schematic
PUSL(7:0)
GEN_CTRL_CMT(20:0)
LPRFCLK
LPRF_CMT(6:0)
PCM(3:0)
BC4_TEST(3:0)
SPI(3:0)
6000-6099
AV_FLEX_BTB
schematic
UI_BTB(25:0)
UI_BTB(25:0)
AUDIO_BTB(9:0)
AUDIO_BTB(9:0)
I2C_CMT(1:0)
CAMERA_BTB(19:0)
CAMERA_BTB(19:0)
USB_BTB(4:0)
USB_BTB(4:0)
AV_FLEX_CONN(40:1)
AV_FLEX_CONN(40:1)
3500-3524
UI_FLEX_BTB
schematic
UI_BTB(25:0)
UI_BTB(25:0)
AUDIO_BTB(9:0)
AUDIO_BTB(9:0)
I2C_CMT(1:0)
UI_FLEX_CONN(40:1)
UI_FLEX_CONN(40:1)
3525-3549
SIM
schematic
SIMIF(6:0)
2700-2799
SD_CARD
schematic
MMC_CMT(15:0)
GEN_CTRL_CMT(20:0)
4800-4899
EMU_RAP
schematic
JTAG(6:0)
ETM(16:0)
3100-3199


PLACE J2008 AND J2009 CLOSE TOGETHER
USB_CTRL_CMt(8:0)
I2C_CMT(1:0)
CHARGER
PUSL(7:0)
USB_ACI(7:0)
BTB_USB(4:0)
External VBUS
VBUS connect from here to Betty
PCB: Max current 500mA
TPS61073DDCR
not_assambled
Assemble if EMC problem
Connect to common ground plane ONLY under C2009
Choose GenIO which MUST be LOW during reset
Or Use a pull-down resistor
Choose GenIO which should be LOW during reset
Or Use a pull-down resistor
SMB235ET-U08V
PCB: Max current 1A
Small area filled
Charging dead battery
TK63733BCBG
ISP1302UK
Over-Voltage Protection
Not approved in PDM yet
NOT_ASSEMBLED
Draft R2010 to be replaced by new code in PDM
EX-VBUS
PCB: Testpad for 1A
Testpad for charger cal.
Use R2007 tills we get R2010
Place near DMTXD traces
Place near DPRXD traces
EMIF02-USB01F2
SLAVEPU
DPRXD
DMTXD
External_VBUS
D-
D+
ID



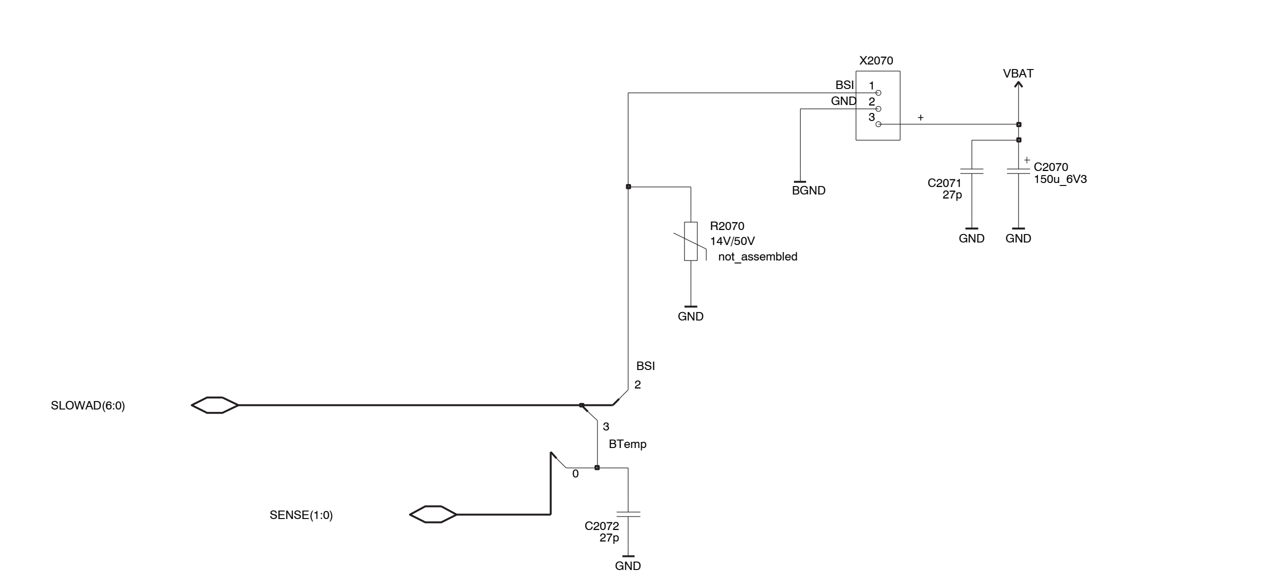
Traceability pad

BB5.0 have defined 7-pin test pad pattern



Denied for new Designs !

Battery inferface



Headset

XAUDIO(5:0)
0 Mic2N J2110
1 Mic2P J2111
2 XearL J2112 R2112 5.6V/15V/0.05J
3 XearLC J2113 R2113 5.6V/15V/0.05J
GND

Earpiece

AUDIO(6:0)
0 EARP
1 EARN
AUDIO_BTB(9:0)
EARP 0
EARN 1

Microphone

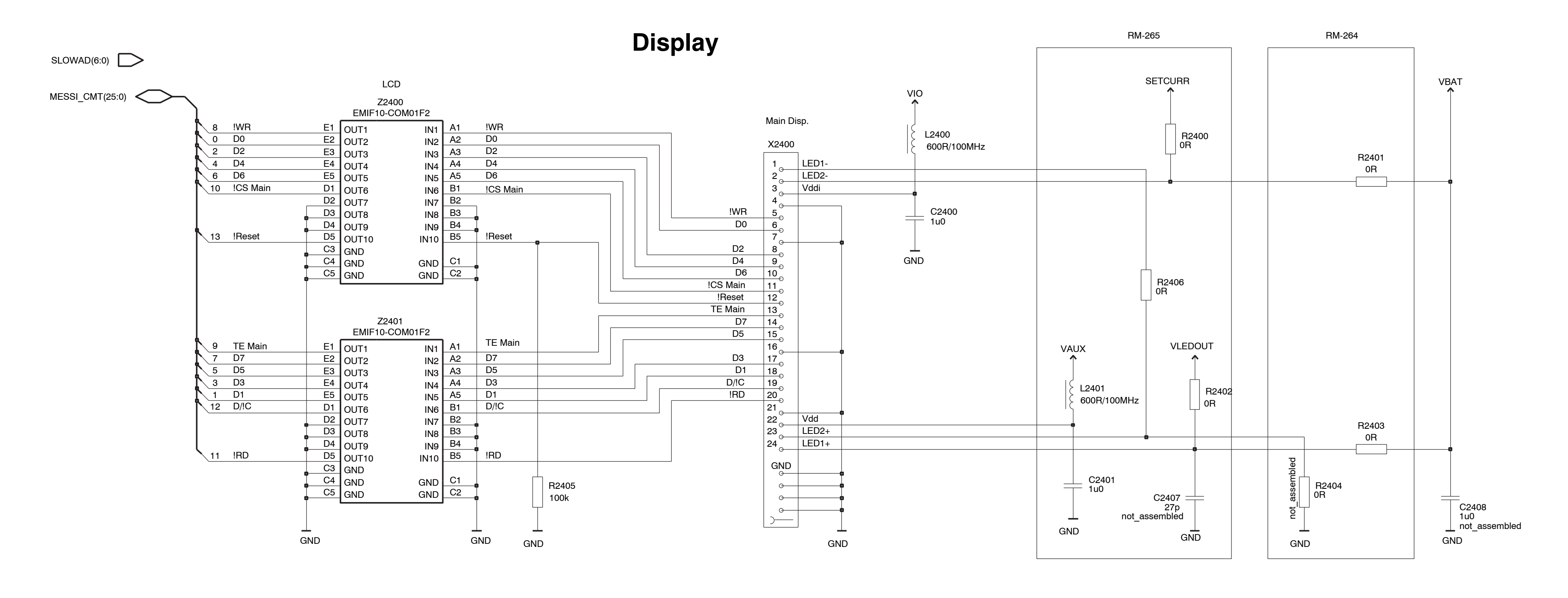
GEN_CTRL_CMT(20:0)
2 DMIC_En
DIG_AUDIO(5:0)
0 AudioClk
3 AuxMicData
R2101 0R
L2109 220R/100MHz
C2109 100n
GND
C2110 27p not_assembled
GND
R2102 EMIF03-SIM02F2
C2 A3 B3 C3
CLK
SIM Reader Side
A2 B1 C1 B2
R1 R2 R3
CLK GND
GND
R2103 1k0
L2110 220R/100MHz
R2104 0R
VDD 2
Audio_Clk 3
AuxMic_Data 4

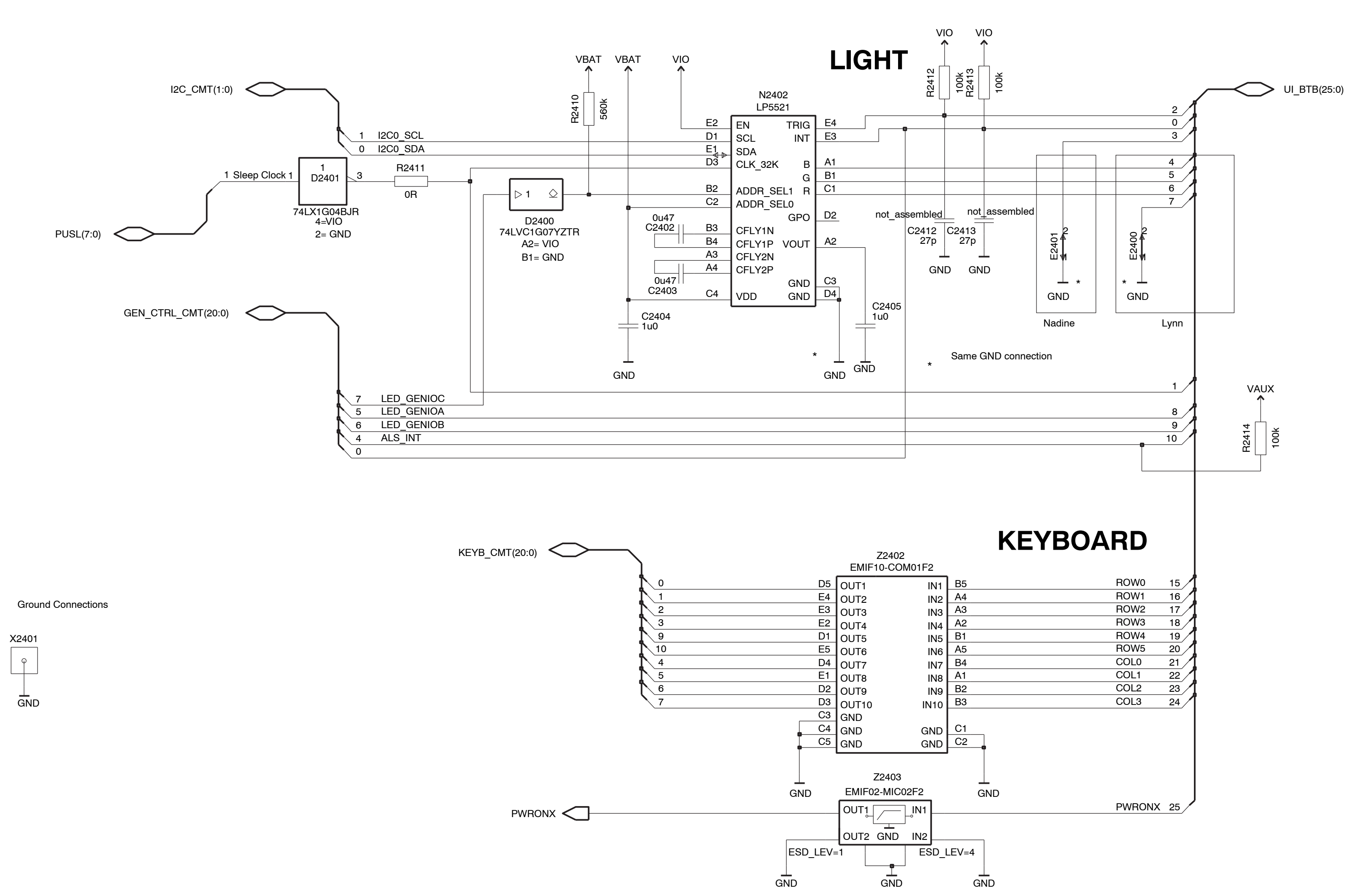
Vibra

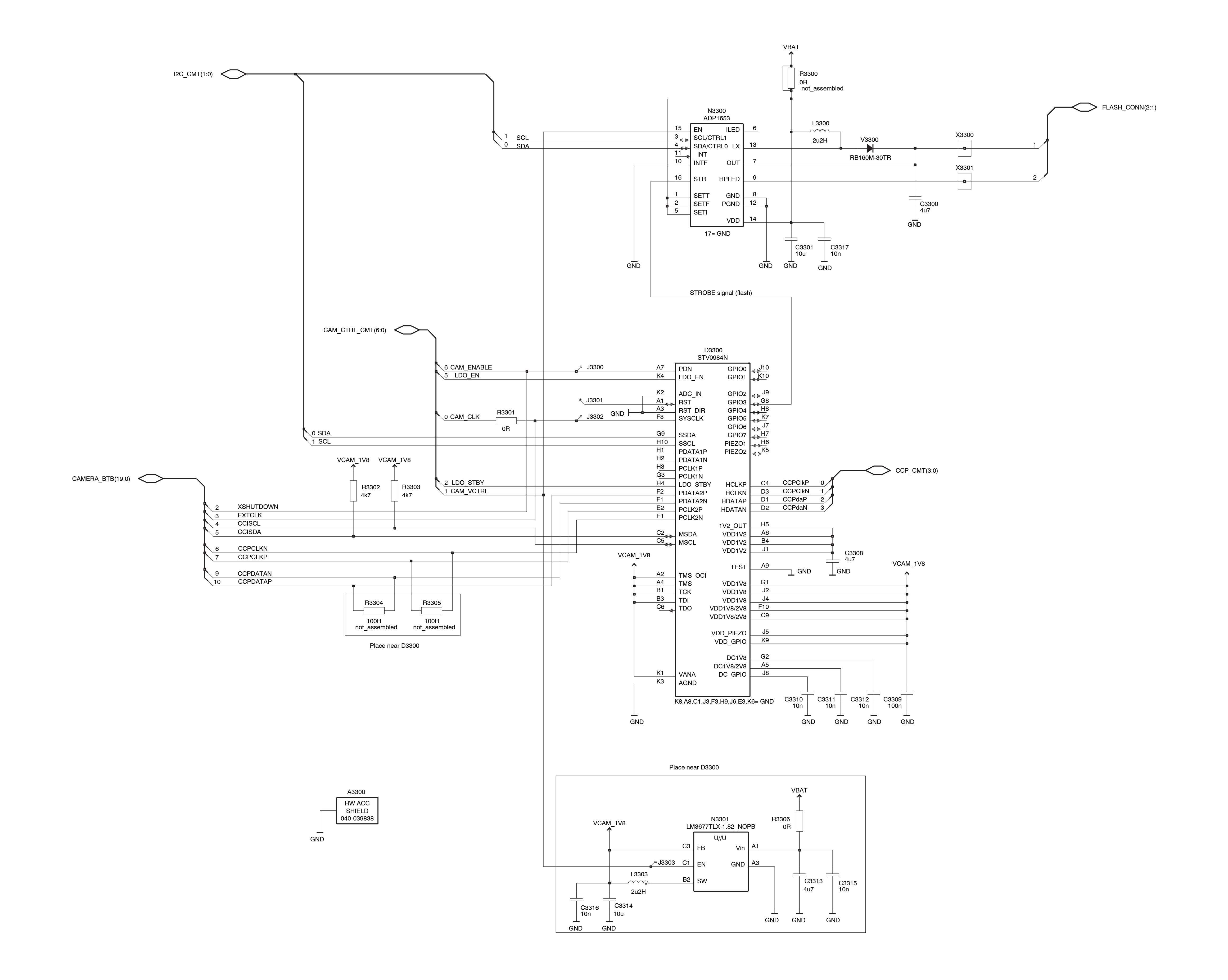
H_BRIDGE(3:0)
2 VIBRAP
L2107 220R/100MHz
3 VIBRAN
L2108 220R/100MHz
C2100 27p
C2101 27p
GND
C2102 1n0
X2100
X2101
To be placed close to William

IHF

0 HFSPP
L2102 220R/100MHz
1 HFSPN
L2101 220R/100MHz
C2106 27p
C2107 27p
GND
HFSPP_AV 5
HFSPN_AV 6

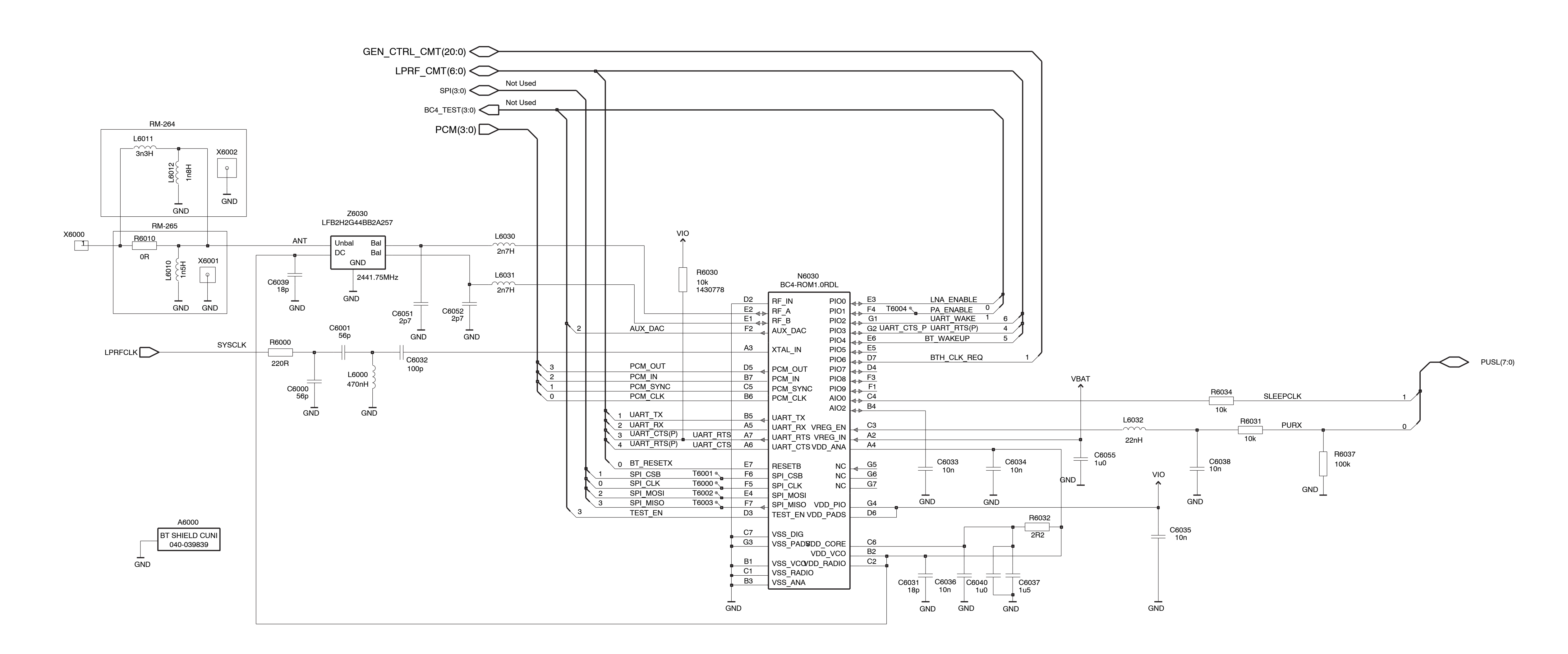

Display
RM-265
RM-264
LCD
Z2400
EMIF10-COM01F2
Z2401
EMIF10-COM01F2
Main Disp.
X2400
SLOWAD(6:0)
MESSI_CMT(25:0)
VIO
VBAT
VAUX
VLEDOUT
SETCURR
GND

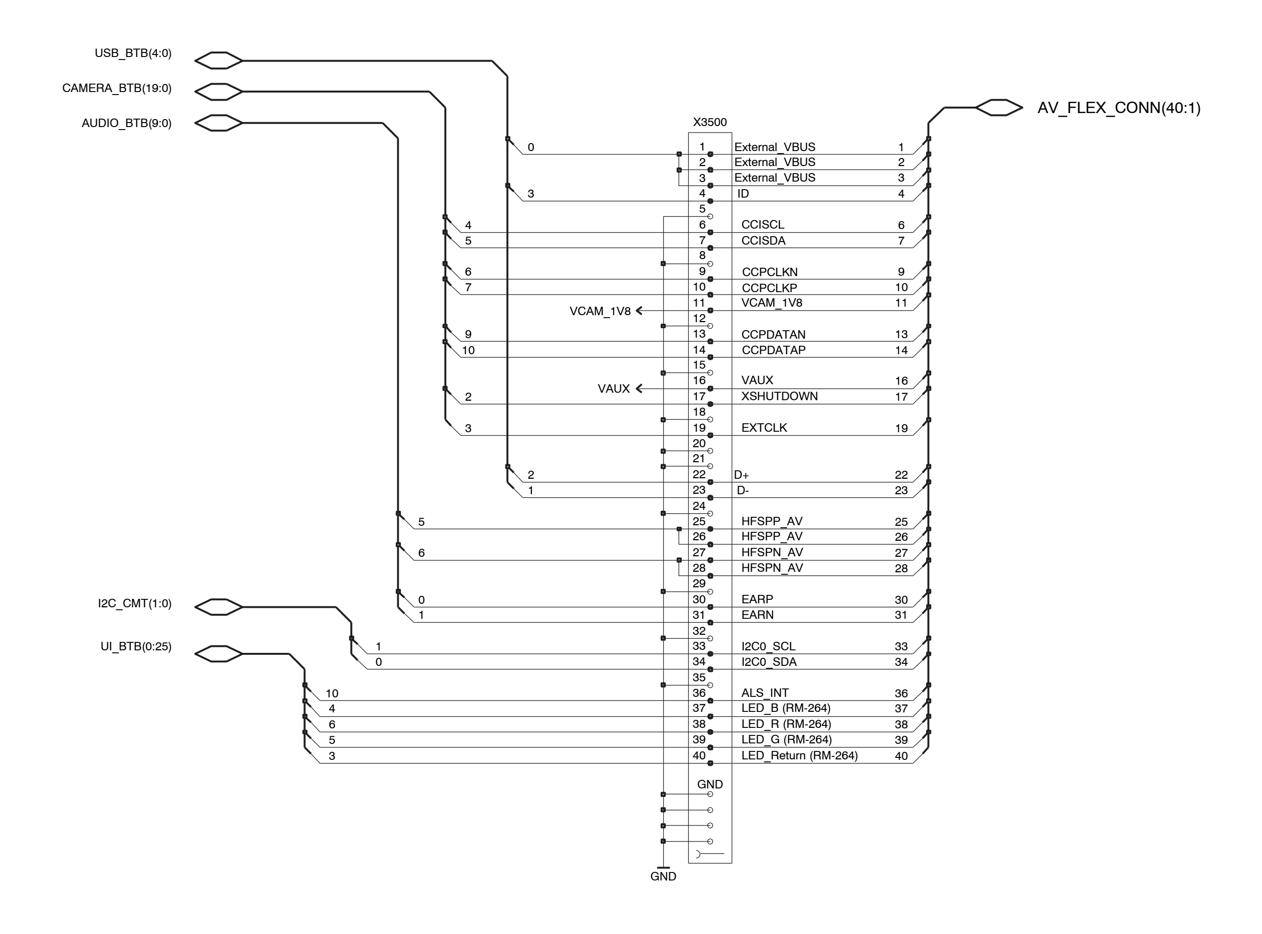

LIGHT
N2402
LP5521
D2401
74LX1G04BJR
D2400
74LVC1G07YZTR
I2C_CMT(1:0)
PUSL(7:0)
GEN_CTRL_CMT(20:0)
UI_BTB(25:0)
Same GND connection
Nadine
Lynn
KEYBOARD
Z2402
EMIF10-COM01F2
Z2403
EMIF02-MIC02F2
KEYB_CMT(20:0)
PWRONX
Ground Connections
X2401
GND

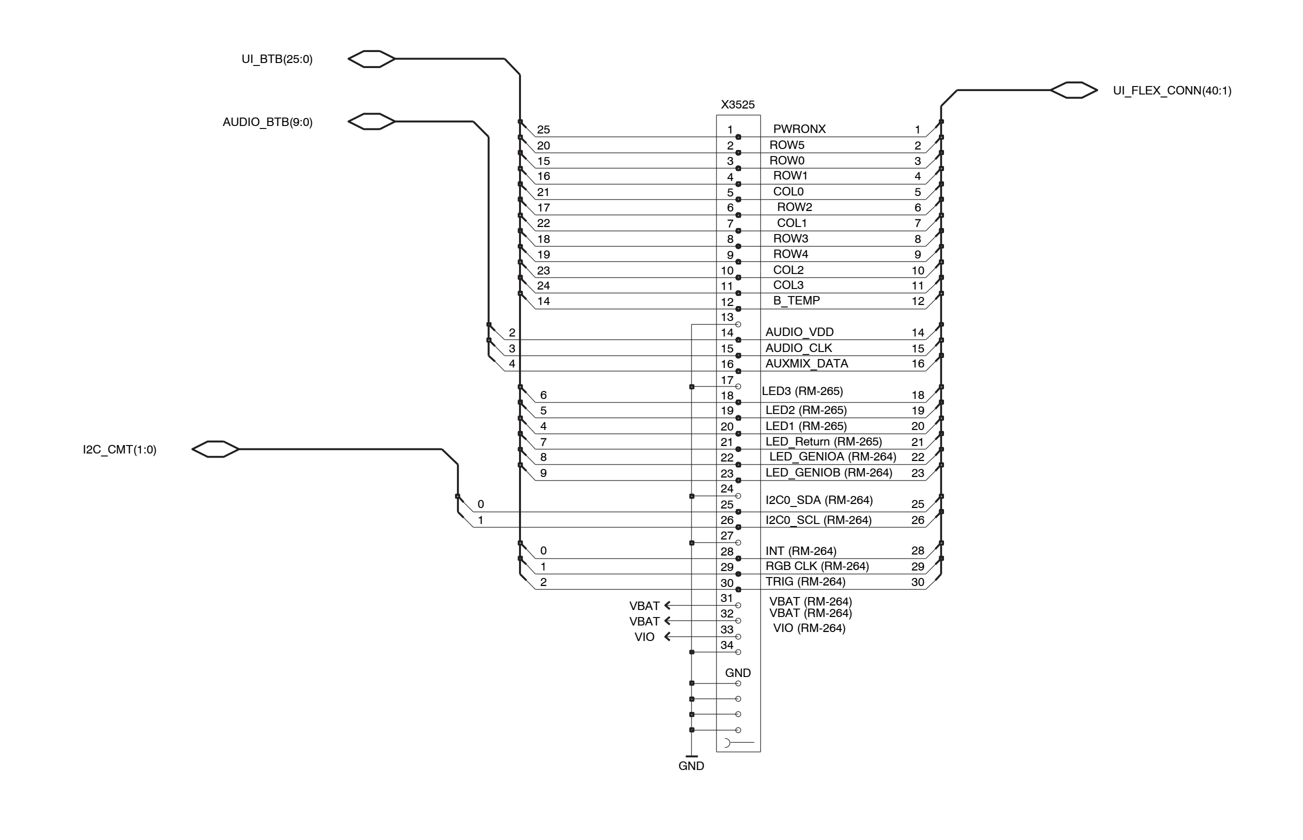


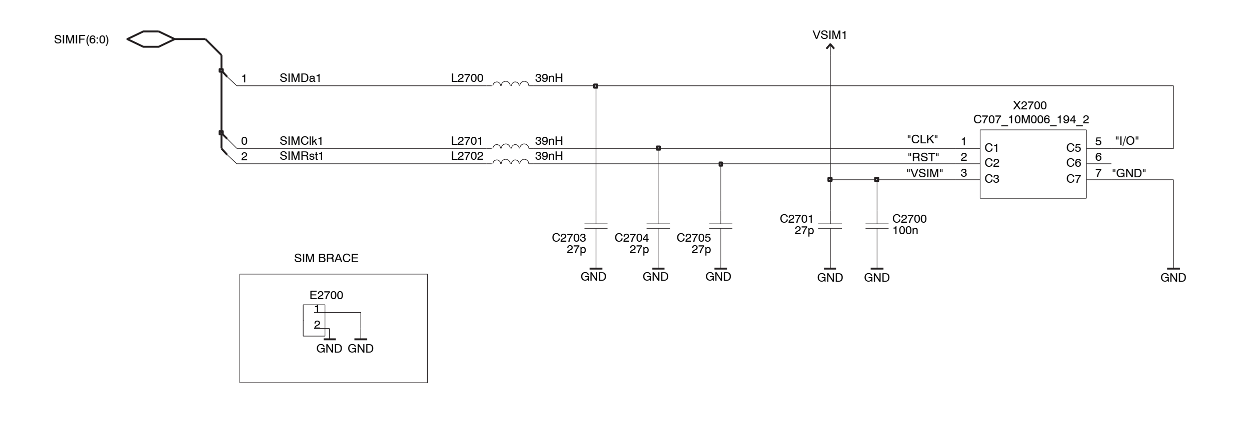
I2C_CMT(1:0)
VBAT
R3300
0R
not_assembled
FLASH_CONN(2:1)
N3300
ADP1653
L3300
2u2H
V3300
RB160M-30TR
X3300
X3301
C3300
4u7
C3301
10u
C3317
10n
17= GND
STROBE signal (flash)
CAM_CTRL_CMT(6:0)
D3300
STV0984N
CAM_ENABLE
LDO_EN
CAM_CLK
R3301
0R
J3300
J3301
J3302
SDA
SCL
LDO_STBY
CAM_VCTRL
CAMERA_BTB(19:0)
XSHUTDOWN
EXTCLK
CCISCL
CCISDA
CCPCLKN
CCPCLKP
CCPDATAN
CCPDATAP
VCAM_1V8
R3302
4k7
R3303
4k7
R3304
100R
not_assembled
R3305
100R
not_assembled
Place near D3300
CCP_CMT(3:0)
CCPClkP
CCPClkN
CCPdaP
CCPdaN
C3308
4u7
C3310
10n
C3311
10n
C3312
10n
C3309
100n
K8,A8,C1,J3,F3,H9,J6,E3,K6= GND
A3300
HW ACC
SHIELD
040-039838
N3301
LM3677TLX-1.82_NOPB
R3306
0R
L3303
2u2H
J3303
C3313
4u7
C3315
10n
C3316
10n
C3314
10u
GND

BTH PERF2.3 (BC4 ROM1.0) A3.0 2005 WK 37

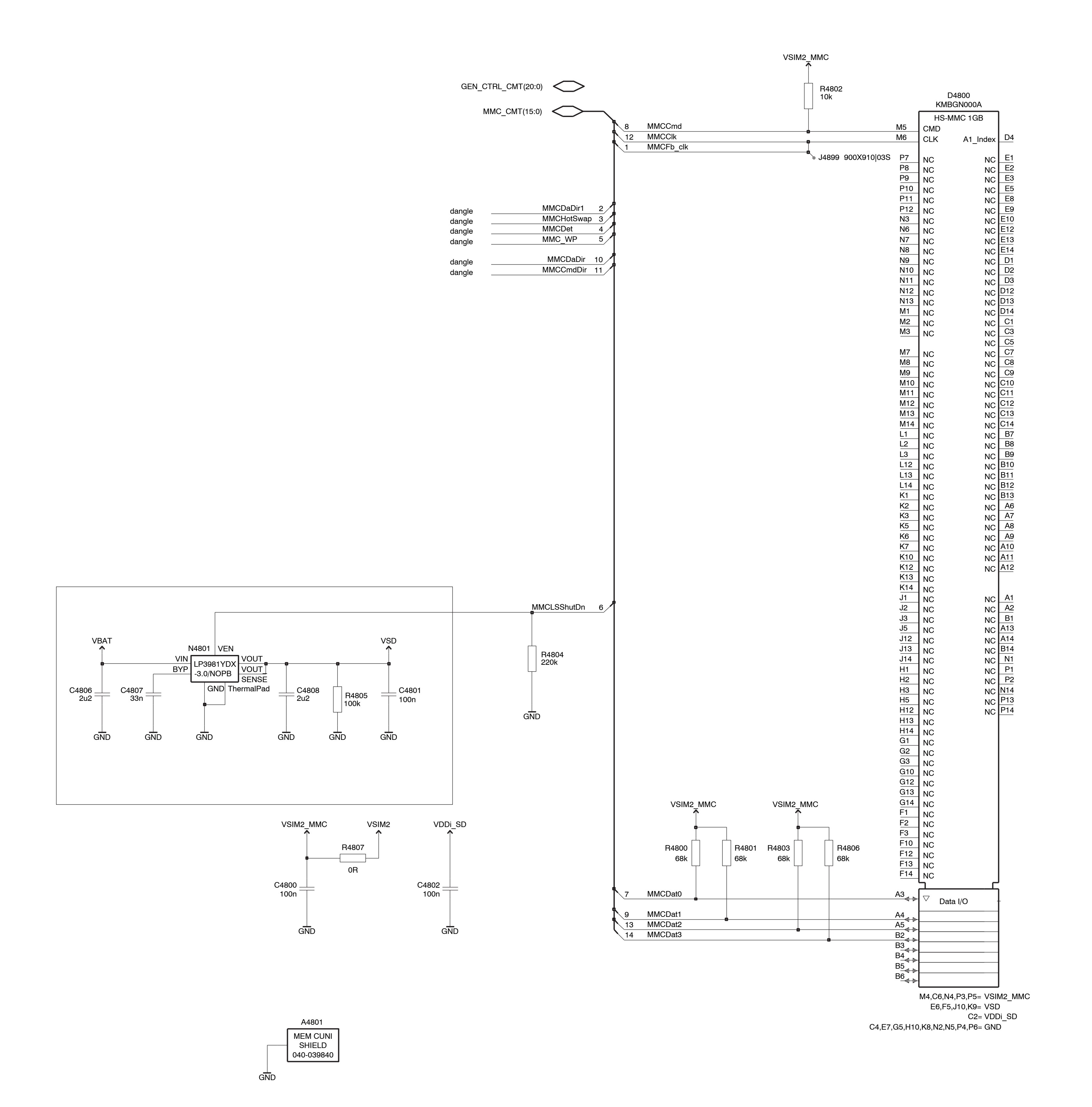



USB_BTB(4:0)
CAMERA_BTB(19:0)
AUDIO_BTB(9:0)
I2C_CMT(1:0)
UI_BTB(0:25)
AV_FLEX_CONN(40:1)
X3500
External_VBUS
External_VBUS
External_VBUS
ID
CCISCL
CCISDA
CCPCLKN
CCPCLKP
VCAM_1V8
VCAM_1V8
CCPDATAN
CCPDATAP
VAUX
VAUX
XSHUTDOWN
EXTCLK
D+
D-
HFSPP_AV
HFSPP_AV
HFSPN_AV
HFSPN_AV
EARP
EARN
I2C0_SCL
I2C0_SDA
ALS_INT
LED_B (RM-264)
LED_R (RM-264)
LED_G (RM-264)
LED_Return (RM-264)
GND
GND


UI_BTB(25:0)
AUDIO_BTB(9:0)
I2C_CMT(1:0)
UI_FLEX_CONN(40:1)
X3525
PWRONX
ROW5
ROW0
ROW1
COL0
ROW2
COL1
ROW3
ROW4
COL2
COL3
B_TEMP
AUDIO_VDD
AUDIO_CLK
AUXMIX_DATA
LED3 (RM-265)
LED2 (RM-265)
LED1 (RM-265)
LED_Return (RM-265)
LED_GENIOA (RM-264)
LED_GENIOB (RM-264)
I2C0_SDA (RM-264)
I2C0_SCL (RM-264)
INT (RM-264)
RGB CLK (RM-264)
TRIG (RM-264)
VBAT (RM-264)
VBAT (RM-264)
VIO (RM-264)
VBAT
VBAT
VIO
GND
GND

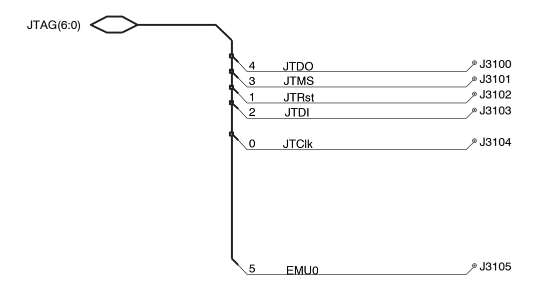


SIMIF(6:0)
1
SIMDa1
L2700
39nH
0
SIMClk1
L2701
39nH
2
SIMRst1
L2702
39nH
VSIM1
X2700
C707_10M006_194_2
"CLK"
"RST"
"VSIM"
1
2
3
C1
C2
C3
C5
C6
C7
5
6
7
"I/O"
"GND"
C2703
27p
C2704
27p
C2705
27p
C2701
27p
C2700
100n
GND
GND
GND
GND
GND
GND
SIM BRACE
E2700
1
2
GND
GND

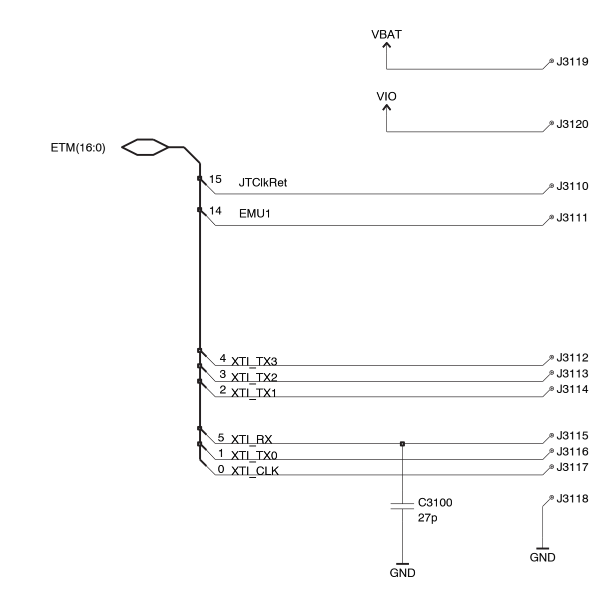


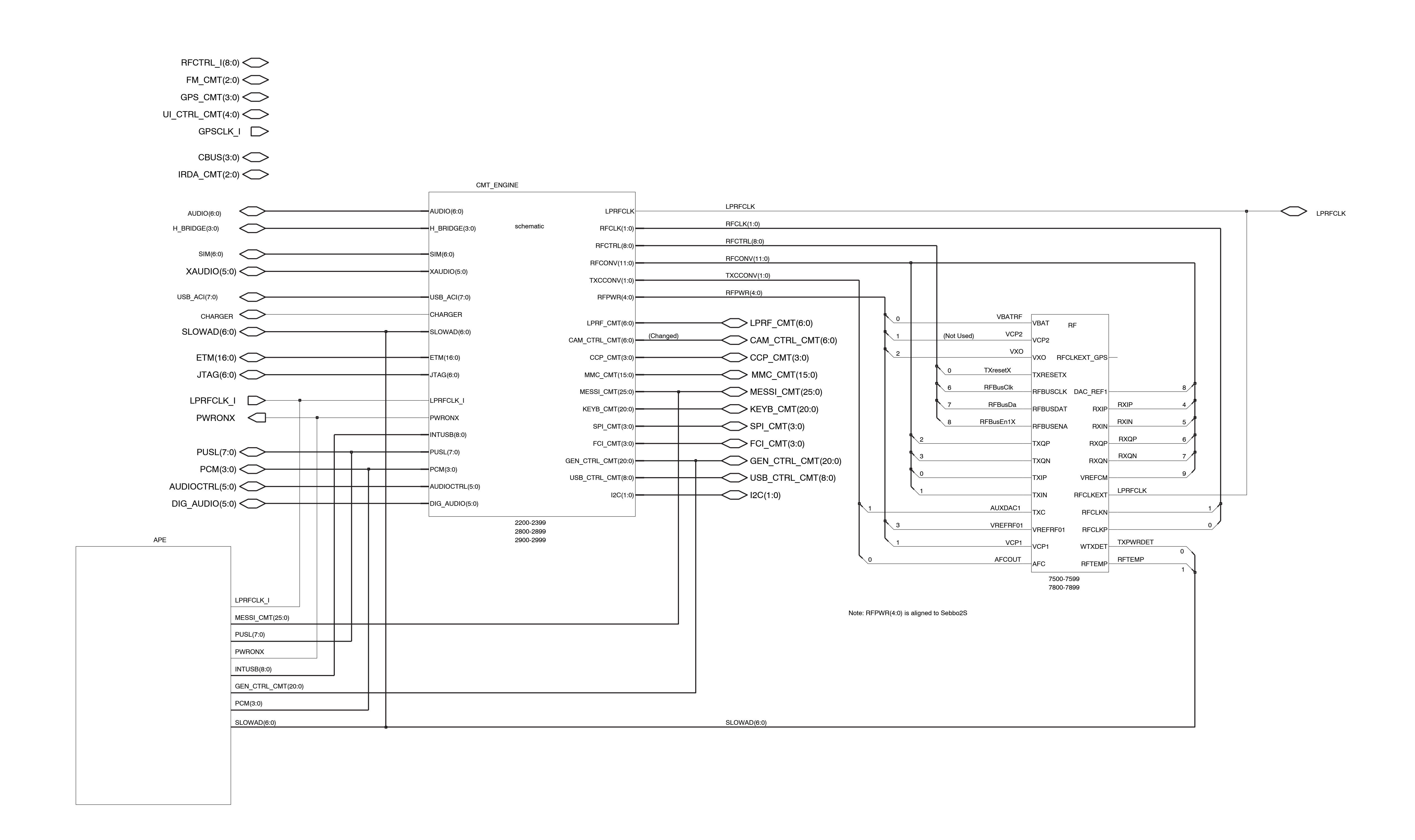
VSIM2_MMC
R4802
10k
GEN_CTRL_CMT(20:0)
MMC_CMT(15:0)
D4800
KMBGN000A
HS-MMC 1GB
MMCCmd
MMCClk
MMCFb_clk
J4899 900X910|03S
CMD
CLK
A1_Index
dangle
MMCDaDir1
MMCHotSwap
MMCDet
MMC_WP
MMCDaDir
MMCcmdDir
MMCLSShutDn
N4801
LP3981YDX
-3.0/NOPB
VBAT
VSD
VIN
BYP
VEN
VOUT
SENSE
ThermalPad
GND
C4806
2u2
C4807
33n
C4808
2u2
R4805
100k
C4801
100n
R4804
220k
VSIM2_MMC
VSIM2
VDDi_SD
R4807
0R
C4800
100n
C4802
100n
R4800
68k
R4801
68k
R4803
68k
R4806
68k
MMCDat0
MMCDat1
MMCDat2
MMCDat3
Data I/O
M4,C6,N4,P3,P5= VSIM2_MMC
E6,F5,J10,K9= VSD
C2= VDDi_SD
C4,E7,G5,H10,K8,N2,N5,P4,P6= GND
A4801
MEM CUNI
SHIELD
040-039840

JTAG Interface

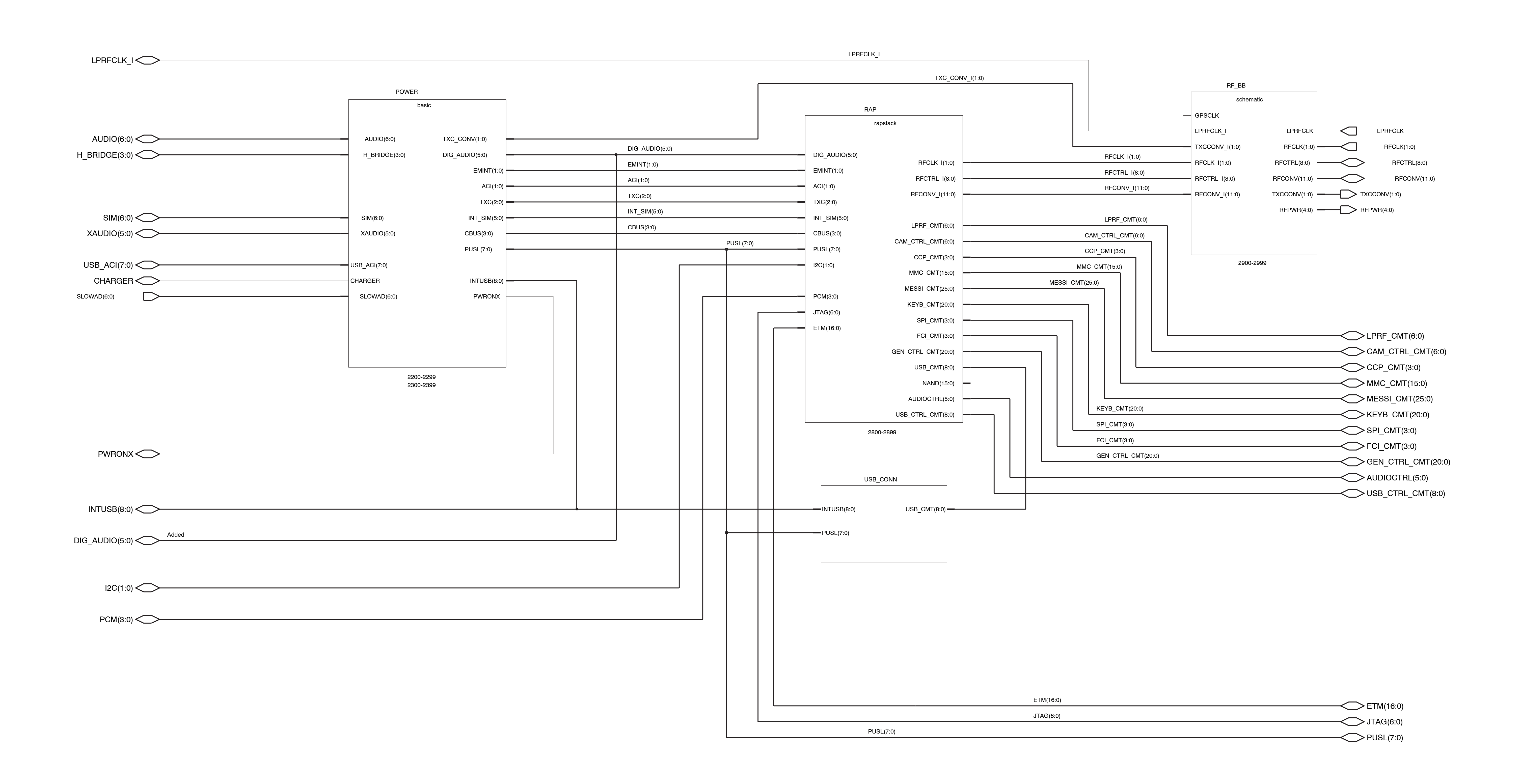


ETM Interface

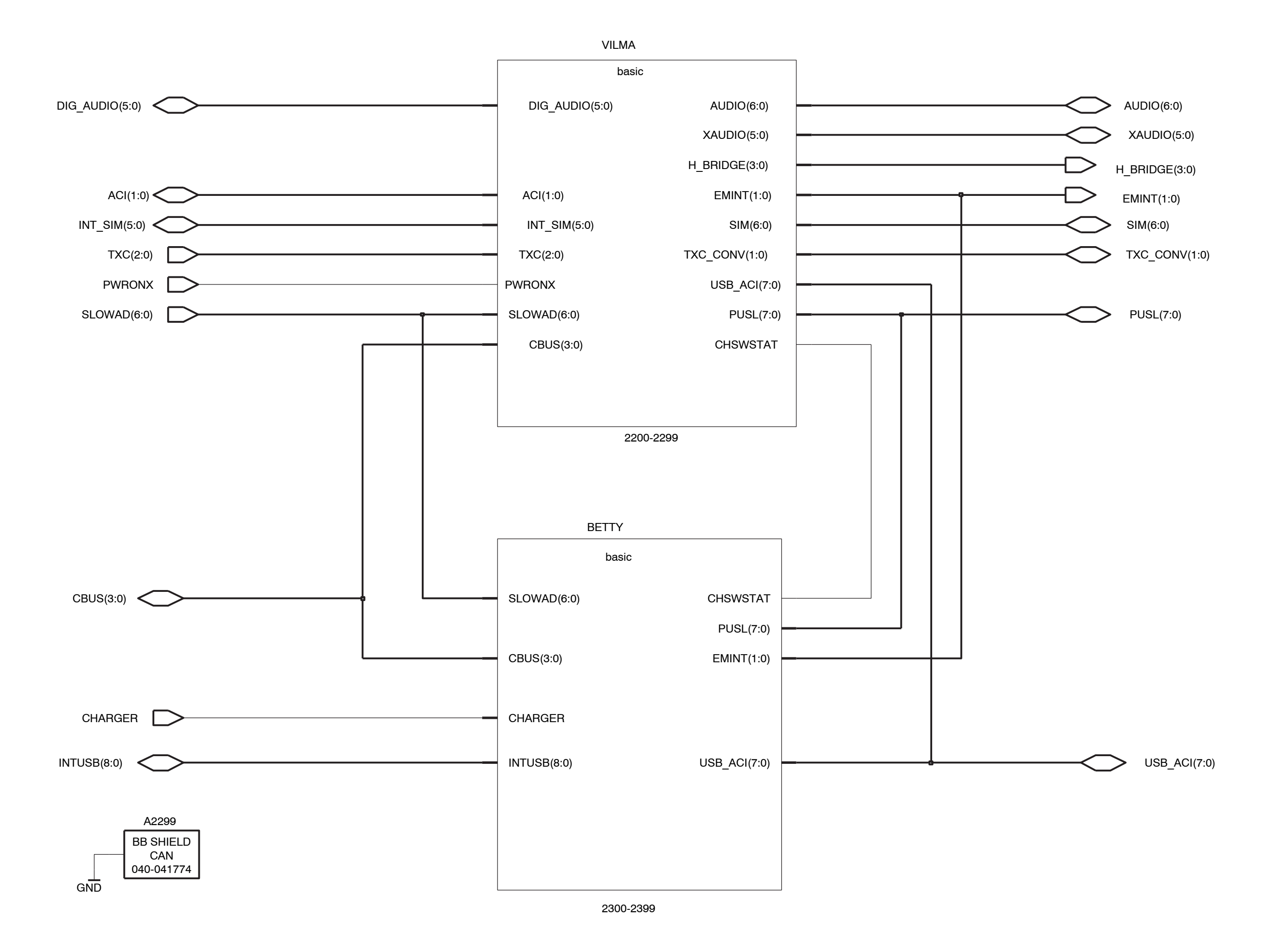


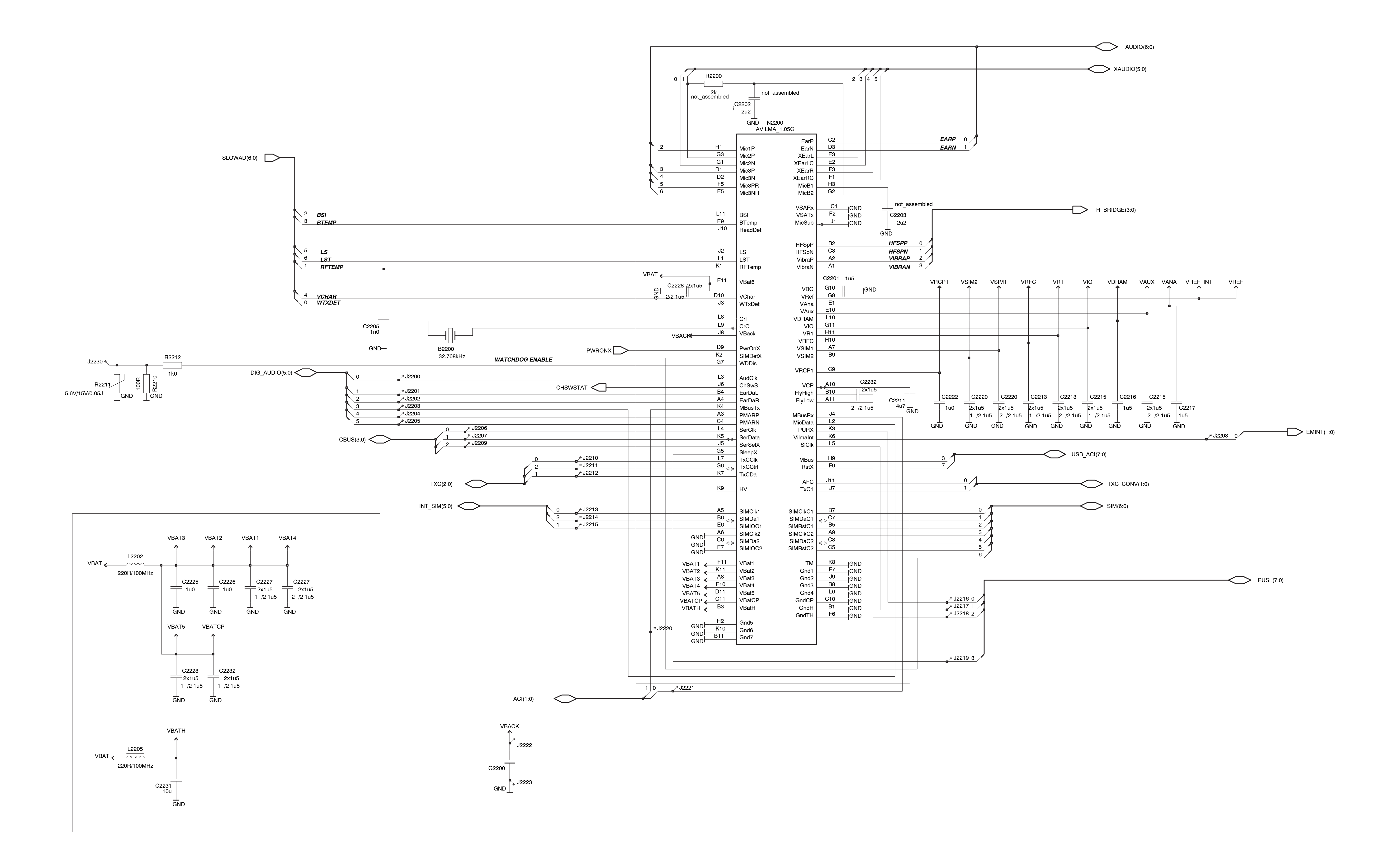


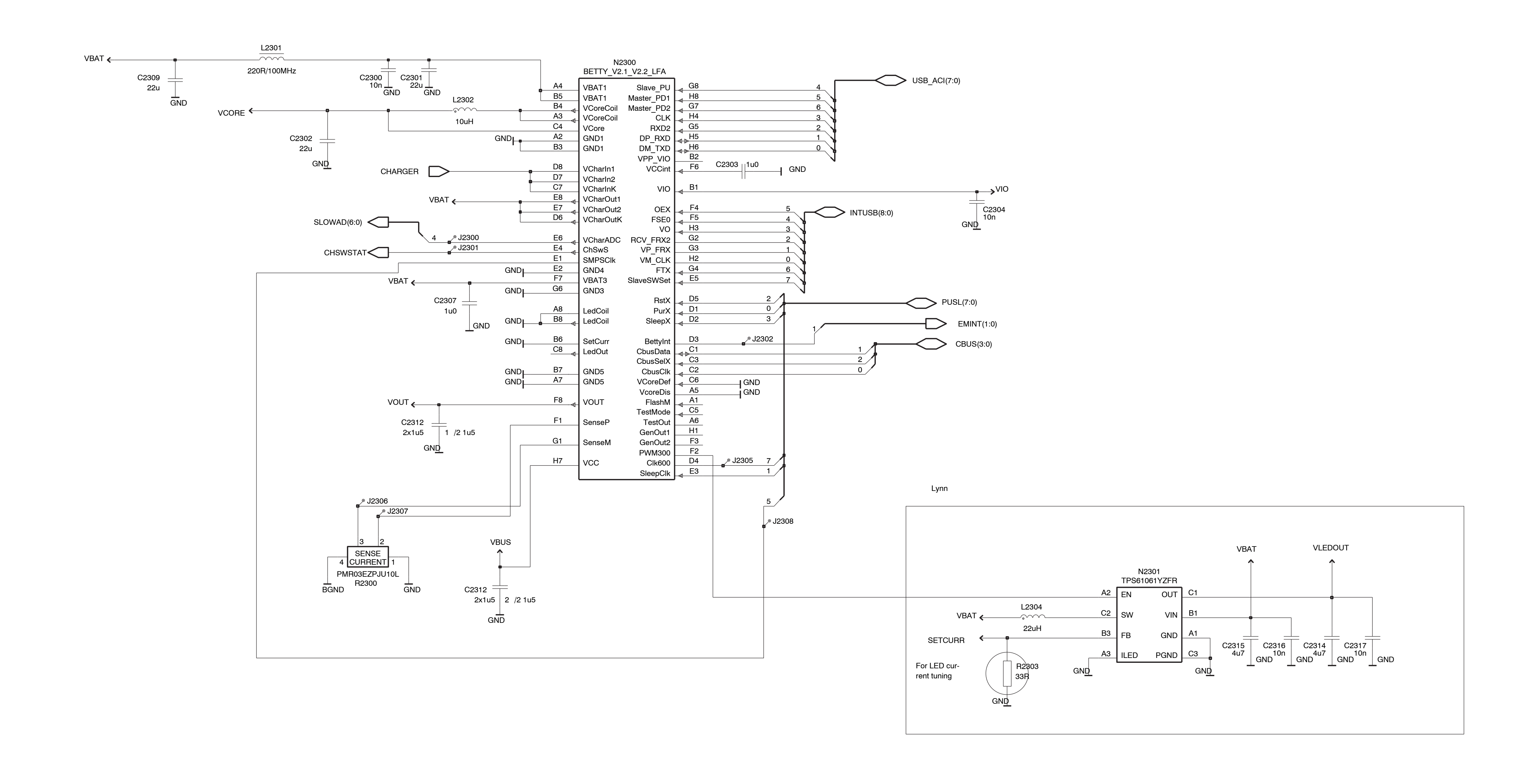
RFCTRL_I(8:0)
FM_CMT(2:0)
GPS_CMT(3:0)
UI_CTRL_CMT(4:0)
GPSCLK_I
CBUS(3:0)
IRDA_CMT(2:0)
CMT_ENGINE
schematic
AUDIO(6:0)
H_BRIDGE(3:0)
SIM(6:0)
XAUDIO(5:0)
USB_ACI(7:0)
CHARGER
SLOWAD(6:0)
ETM(16:0)
JTAG(6:0)
LPRFCLK_I
PWRONX
INTUSB(8:0)
PUSL(7:0)
PCM(3:0)
AUDIOCTRL(5:0)
DIG_AUDIO(5:0)
LPRFCLK
RFCLK(1:0)
RFCTRL(8:0)
RFCONV(11:0)
TXCCONV(1:0)
RFPWR(4:0)
LPRF_CMT(6:0)
CAM_CTRL_CMT(6:0)
(Changed)
CCP_CMT(3:0)
MMC_CMT(15:0)
MESSI_CMT(25:0)
KEYB_CMT(20:0)
SPI_CMT(3:0)
FCI_CMT(3:0)
GEN_CTRL_CMT(20:0)
USB_CTRL_CMT(8:0)
I2C(1:0)
2200-2399
2800-2899
2900-2999
APE
LPRFCLK_I
MESSI_CMT(25:0)
PUSL(7:0)
PWRONX
INTUSB(8:0)
GEN_CTRL_CMT(20:0)
PCM(3:0)
SLOWAD(6:0)
RF
VBATRF
(Not Used)
VCP2
VXO
TXresetX
RFBusClk
RFBusDa
RFBusEn1X
VBAT
TXRESETX
RFBUSCLK
RFBUSDAT
RFBUSENA
TXQP
TXQN
TXIP
TXIN
AUXDAC1
TXC
VREFRF01
VCP1
AFCOUT
AFC
RFCLKEXT_GPS
DAC_REF1
RXIP
RXIN
RXQP
RXQN
VREFCM
RFCLKEXT
RFCLKN
RFCLKP
WTXDET
RFTEMP
TXPWRDET
7500-7599
7800-7899
Note: RFPWR(4:0) is aligned to Sebbo2S



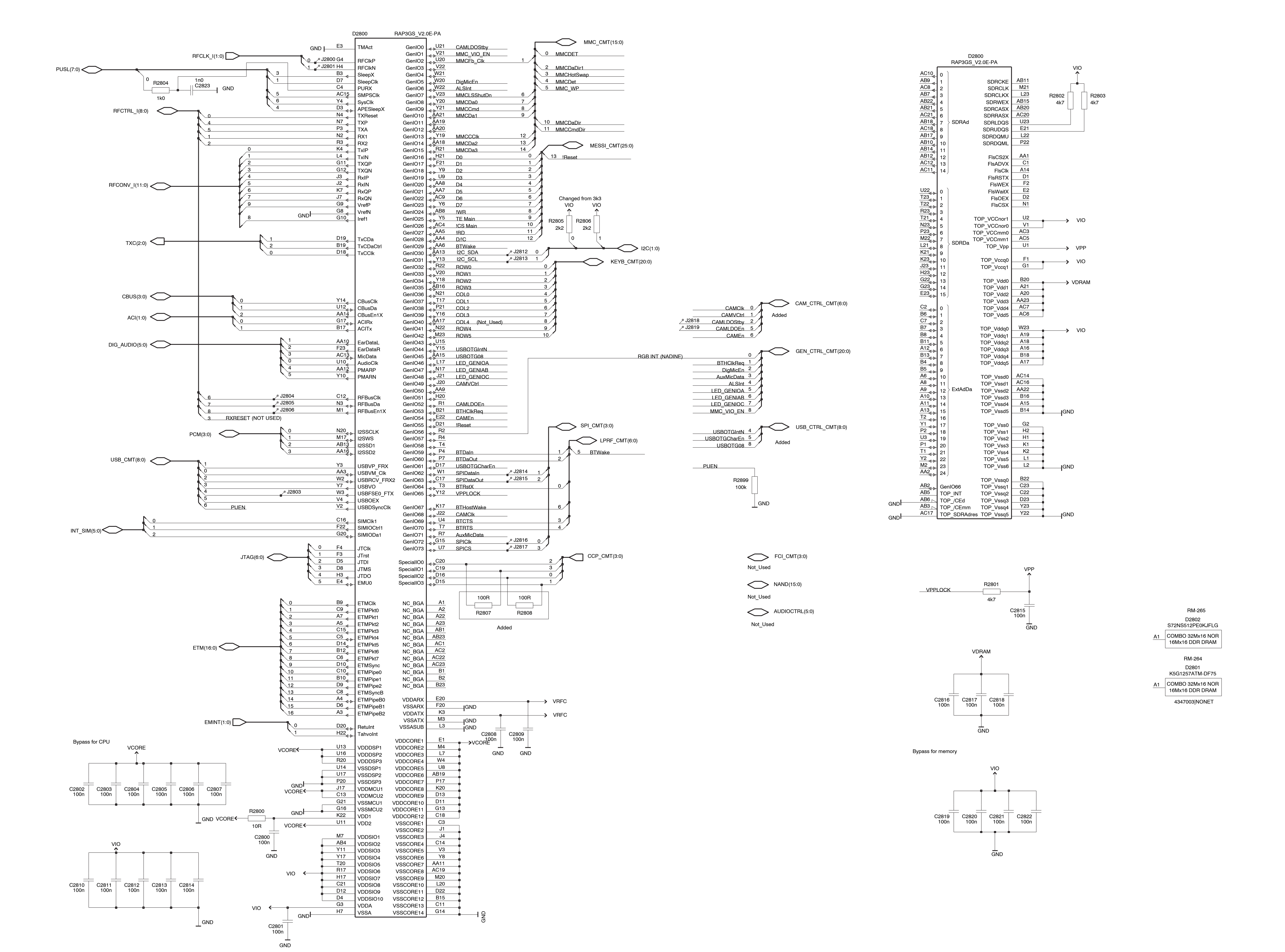
LPRFCLK_I
LPRFCLK_I
TXC_CONV_I(1:0)
POWER
basic
AUDIO(6:0)
H_BRIDGE(3:0)
AUDIO(6:0)
H_BRIDGE(3:0)
TXC_CONV(1:0)
DIG_AUDIO(5:0)
EMINT(1:0)
ACI(1:0)
TXC(2:0)
INT_SIM(5:0)
CBUS(3:0)
PUSL(7:0)
SIM(6:0)
XAUDIO(5:0)
SIM(6:0)
XAUDIO(5:0)
USB_ACI(7:0)
CHARGER
SLOWAD(6:0)
USB_ACI(7:0)
CHARGER
SLOWAD(6:0)
INTUSB(8:0)
PWRONX
2200-2299
2300-2399
DIG_AUDIO(5:0)
EMINT(1:0)
ACI(1:0)
TXC(2:0)
INT_SIM(5:0)
CBUS(3:0)
PUSL(7:0)
RAP
rapstack
DIG_AUDIO(5:0)
EMINT(1:0)
ACI(1:0)
TXC(2:0)
INT_SIM(5:0)
CBUS(3:0)
PUSL(7:0)
I2C(1:0)
PCM(3:0)
JTAG(6:0)
ETM(16:0)
RFCLK_I(1:0)
RFCTRL_I(8:0)
RFCONV_I(11:0)
LPRF_CMT(6:0)
CAM_CTRL_CMT(6:0)
CCP_CMT(3:0)
MMC_CMT(15:0)
MESSI_CMT(25:0)
KEYB_CMT(20:0)
SPI_CMT(3:0)
FCI_CMT(3:0)
GEN_CTRL_CMT(20:0)
USB_CMT(8:0)
NAND(15:0)
AUDIOCTRL(5:0)
USB_CTRL_CMT(8:0)
2800-2899
RF_BB
schematic
GPSCLK
LPRFCLK_I
TXCCONV_I(1:0)
RFCLK_I(1:0)
RFCTRL_I(8:0)
RFCONV_I(11:0)
LPRFCLK
RFCLK(1:0)
RFCTRL(8:0)
RFCONV(11:0)
TXCCONV(1:0)
RFPWR(4:0)
2900-2999
LPRFCLK
RFCLK(1:0)
RFCTRL(8:0)
RFCONV(11:0)
TXCCONV(1:0)
RFPWR(4:0)
RFCLK_I(1:0)
RFCTRL_I(8:0)
RFCONV_I(11:0)
LPRF_CMT(6:0)
CAM_CTRL_CMT(6:0)
CCP_CMT(3:0)
MMC_CMT(15:0)
MESSI_CMT(25:0)
KEYB_CMT(20:0)
SPI_CMT(3:0)
FCI_CMT(3:0)
GEN_CTRL_CMT(20:0)
LPRF_CMT(6:0)
CAM_CTRL_CMT(6:0)
CCP_CMT(3:0)
MMC_CMT(15:0)
MESSI_CMT(25:0)
KEYB_CMT(20:0)
SPI_CMT(3:0)
FCI_CMT(3:0)
GEN_CTRL_CMT(20:0)
AUDIOCTRL(5:0)
USB_CTRL_CMT(8:0)
USB_CONN
INTUSB(8:0)
PUSL(7:0)
USB_CMT(8:0)
PWRONX
INTUSB(8:0)
DIG_AUDIO(5:0)
Added
I2C(1:0)
PCM(3:0)
ETM(16:0)
JTAG(6:0)
PUSL(7:0)
ETM(16:0)
JTAG(6:0)
PUSL(7:0)


VILMA
basic
DIG_AUDIO(5:0)
ACI(1:0)
INT_SIM(5:0)
TXC(2:0)
PWRONX
SLOWAD(6:0)
CBUS(3:0)
AUDIO(6:0)
XAUDIO(5:0)
H_BRIDGE(3:0)
EMINT(1:0)
SIM(6:0)
TXC_CONV(1:0)
USB_ACI(7:0)
PUSL(7:0)
CHSWSTAT
2200-2299
DIG_AUDIO(5:0)
ACI(1:0)
INT_SIM(5:0)
TXC(2:0)
PWRONX
SLOWAD(6:0)
AUDIO(6:0)
XAUDIO(5:0)
H_BRIDGE(3:0)
EMINT(1:0)
SIM(6:0)
TXC_CONV(1:0)
PUSL(7:0)
BETTY
basic
SLOWAD(6:0)
CBUS(3:0)
CHARGER
INTUSB(8:0)
CHSWSTAT
PUSL(7:0)
EMINT(1:0)
USB_ACI(7:0)
2300-2399
CBUS(3:0)
CHARGER
INTUSB(8:0)
USB_ACI(7:0)
A2299
BB SHIELD
CAN
040-041774
GND

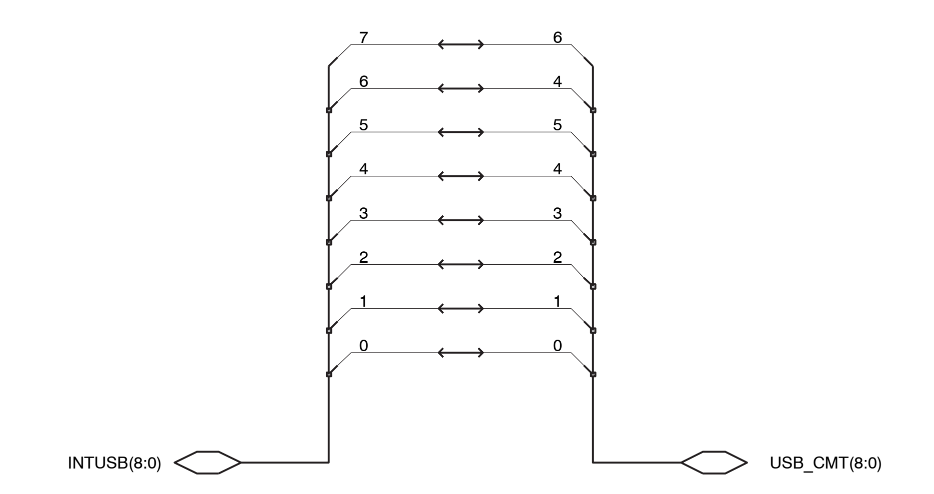


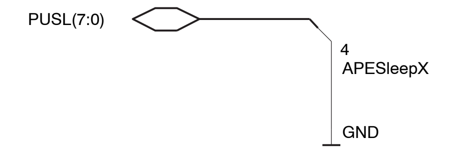


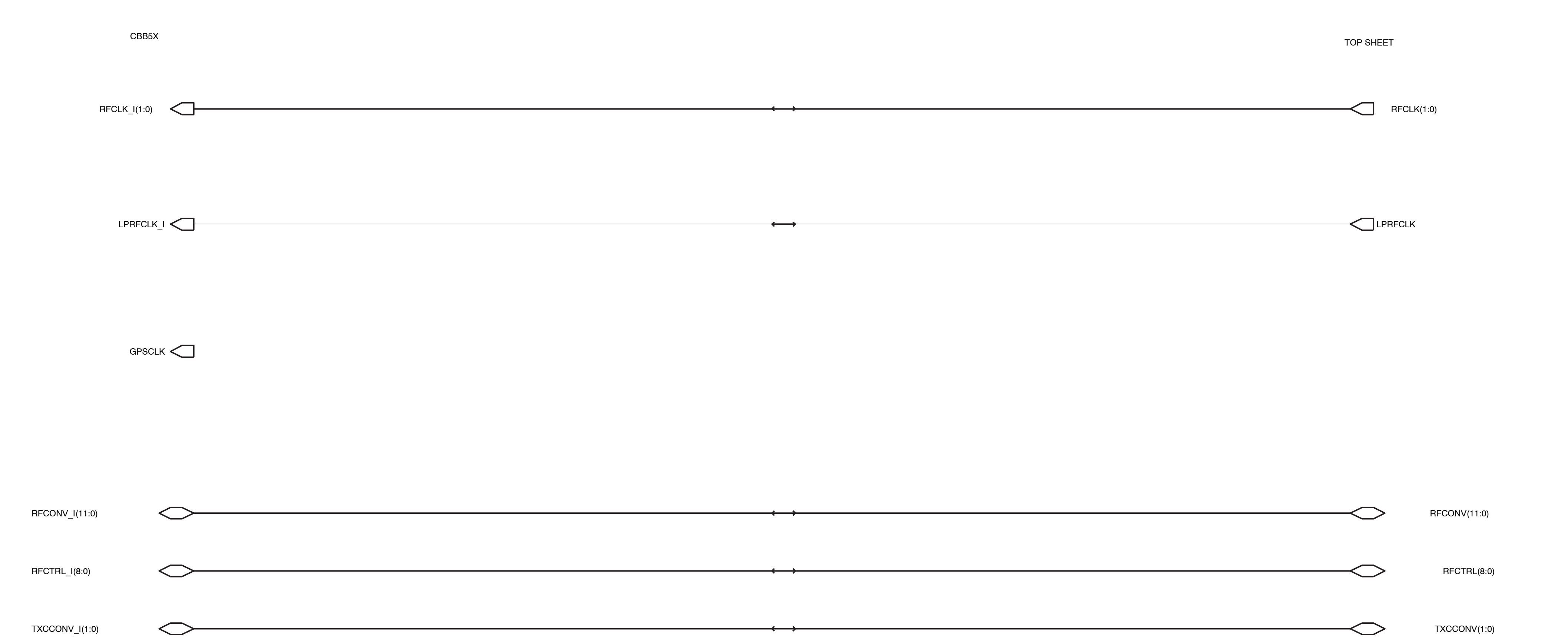
VBAT
L2301
220R/100MHz
C2309
22u
GND
C2300
10n
GND
C2301
22u
GND
VCORE
L2302
10uH
C2302
22u
GND
N2300
BETTY_V2.1_V2.2_LFA
VBAT1
VBAT1
VCoreCoil
VCoreCoil
VCore
GND1
GND1
VCharIn1
VCharIn2
VCharInK
VCharOut1
VCharOut2
VCharOutK
VCharADC
ChSwS
SMPSClk
GND4
VBAT3
GND3
LedCoil
LedCoil
SetCurr
LedOut
GND5
GND5
VOUT
SenseP
SenseM
VCC
Slave_PU
Master_PD1
Master_PD2
CLK
RXD2
DP_RXD
DM_TXD
VPP_VIO
VCCint
VIO
OEX
FSE0
VO
RCV_FRX2
VP_FRX
VM_CLK
FTX
SlaveSWSet
RstX
PurX
SleepX
BettyInt
CbusData
CbusSelX
CbusClk
VCoreDef
VcoreDis
FlashM
TestMode
TestOut
GenOut1
GenOut2
PWM300
Clk600
SleepClk
USB_ACI(7:0)
C2303
1u0
GND
VIO
C2304
10n
GND
INTUSB(8:0)
CHARGER
VBAT
SLOWAD(6:0)
J2300
J2301
CHSWSTAT
VBAT
C2307
1u0
GND
PUSL(7:0)
EMINT(1:0)
CBUS(3:0)
J2302
VOUT
C2312
2x1u5
1 /2 1u5
GND
J2305
J2306
J2307
J2308
SENSE CURRENT
PMR03EZPJU10L
R2300
BGND
GND
VBUS
C2312
2x1u5
2 /2 1u5
GND
Lynn
N2301
TPS61061YZFR
EN
SW
FB
ILED
OUT
VIN
GND
PGND
VBAT
VLEDOUT
L2304
22uH
SETCURR
For LED current tuning
R2303
33R
C2315
4u7
C2316
10n
C2314
4u7
C2317
10n

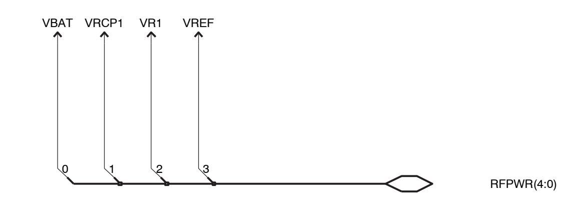


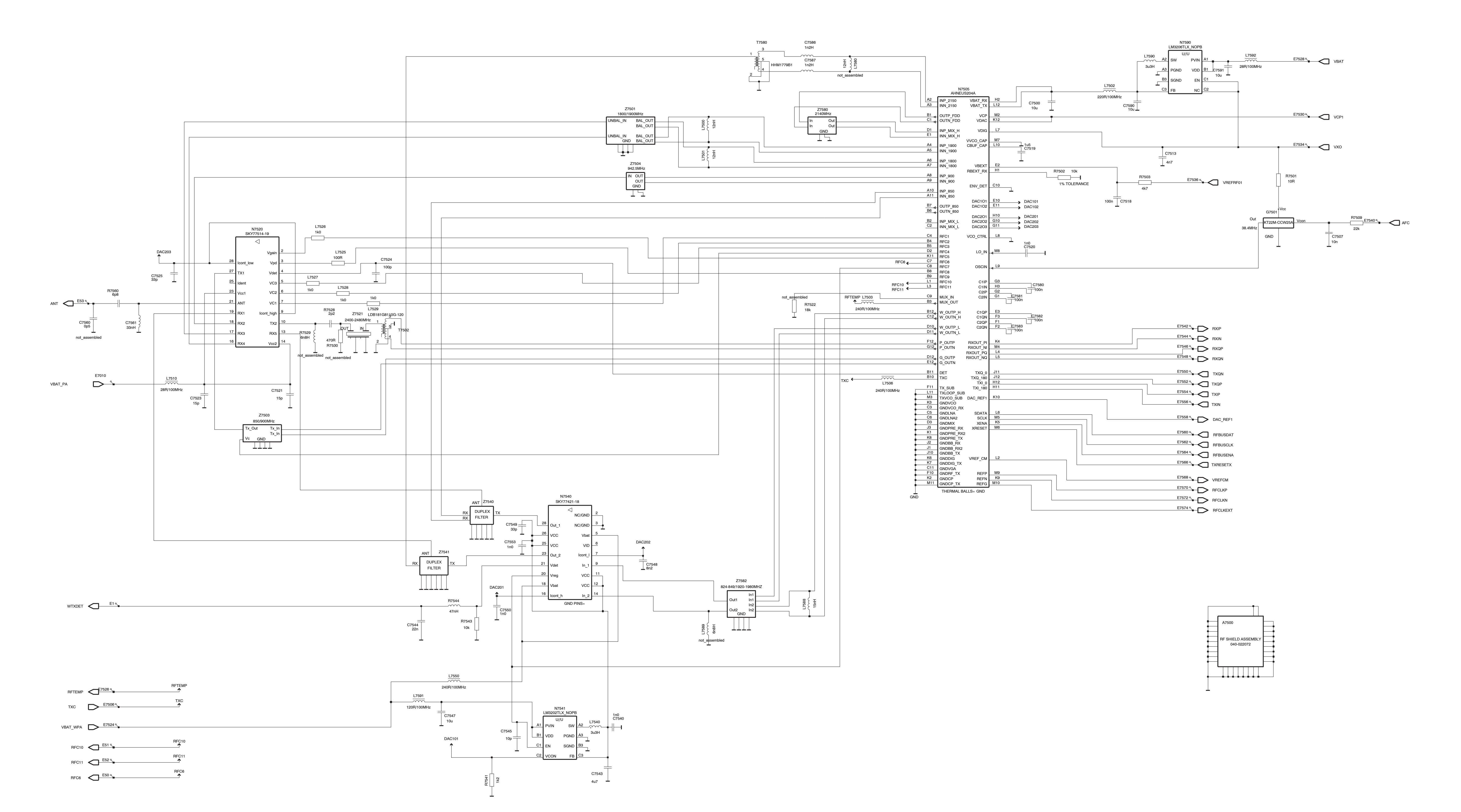
D2800
RAP3GS_V2.0E-PA
MMC_CMT(15:0)
PUSL(7:0)
RFCLK_I(1:0)
R2804
1k0
1n0
C2823
GND
RFCTRL_I(8:0)
RFCONV_I(11:0)
TXC(2:0)
CBUS(3:0)
ACI(1:0)
DIG_AUDIO(5:0)
PCM(3:0)
USB_CMT(8:0)
INT_SIM(5:0)
JTAG(6:0)
ETM(16:0)
EMINT(1:0)
RXRESET (NOT USED)
PUEN
TMAct
RFClkP
RFClkN
SleepX
SleepClk
PURX
SMPSClk
SysClk
APESleepX
TXReset
TXP
TXA
RX1
RX2
TxIP
TxIN
TxQP
TxQN
RxIP
RxIN
RxQP
RxQN
VrefP
VrefN
Iref1
TxCDa
TxCDaCtrl
TxCClk
CBusClk
CBusDa
CBusEn1X
ACIRx
ACITx
EarDataL
EarDataR
MicData
AudioClk
PMARP
PMARN
RFBusClk
RFBusDa
RFBusEn1X
I2SSCLK
I2SWS
I2SSD1
I2SSD2
USBVP_FRX
USBVM_Clk
USBRCV_FRX2
USBVO
USBFSE0_FTX
USBOEX
USBDSyncClk
SIMClk1
SIMIOCtrl1
SIMIODa1
JTClk
JTrst
JTDI
JTMS
JTDO
EMU0
ETMClk
ETMPkt0
ETMSync
ETMPipe0
ETMSyncB
ETMPipeB0
RetuInt
TahvoInt
MESSI_CMT(25:0)
Changed from 3k3
VIO
R2805
2k2
R2806
2k2
I2C(1:0)
KEYB_CMT(20:0)
SPI_CMT(3:0)
LPRF_CMT(6:0)
CCP_CMT(3:0)
MMCDET
MMCDaDir1
MMCHotSwap
MMCDet
MMC_WP
MMCDaDir
MMCCmdDir
!Reset
CAMLDOStby
MMC_VIO_EN
MMCFb_Clk
DigMicEn
ALSInt
MMCLSShutDn
MMCDa0
MMCCmd
MMCDa1
MMCCClk
MMCDa2
MMCDa3
TE Main
!CS Main
!RD
D/!C
BTWake
I2C_SDA
I2C_SCL
ROW0
COL0
COL4 (Not_Used)
USBOTGIntN
USBOTG08
LED_GENIOA
LED_GENIAB
LED_GENIOC
CAMVCtrl
CAMLDOEn
BTHClkReq
CAMEn
!Reset
BTDaIn
BTDaOut
USBOTGCharEn
SPIDataIn
SPIDataOut
BTRstX
VPPLOCK
BTHostWake
CAMClk
BTCTS
BTRTS
AuxMicData
SPIClk
SPICS
100R
R2807
R2808
Added
VRFC
VCORE
C2808
100n
C2809
Bypass for CPU
C2802
C2803
C2804
C2805
C2806
C2807
R2800
10R
C2800
C2810
C2811
C2812
C2813
C2814
C2801
CAM_CTRL_CMT(6:0)
CAMClk
CAMVCtrl
CAMLDOStby
CAMLDOEn
CAMEn
GEN_CTRL_CMT(20:0)
RGB INT (NADINE)
BTHClkReq
DigMicEn
AuxMicData
ALSInt
MMC_VIO_EN
USB_CTRL_CMT(8:0)
USBOTGIntN
USBOTGCharEn
USBOTG08
R2899
100k
FCI_CMT(3:0)
Not_Used
NAND(15:0)
AUDIOCTRL(5:0)
SDRAd
SDRDa
ExtAdDa
SDRCKE
SDRCLK
SDRCLKX
SDRWEX
SDRCASX
SDRRASX
SDRLDQS
SDRUDQS
SDRDQMU
SDRDQML
FlsCS2X
FlsADVX
FlsClk
FlsRSTX
FlsWEX
FlsWaitX
FlsOEX
FlsCSX
TOP_VCCnor1
TOP_Vpp
TOP_Vdd0
TOP_Vssd0
TOP_Vss0
TOP_Vssq0
GenIO66
TOP_INT
TOP_/CEd
TOP_/CEmm
TOP_SDRAdres
R2802
4k7
R2803
VPP
VDRAM
VPPLOCK
R2801
C2815
C2816
C2817
C2818
Bypass for memory
C2819
C2820
C2821
C2822
RM-265
D2802
S72NS512PE0KJFLG
COMBO 32Mx16 NOR
16Mx16 DDR DRAM
RM-264
D2801
K5G1257ATM-DF75
4347003|NONET

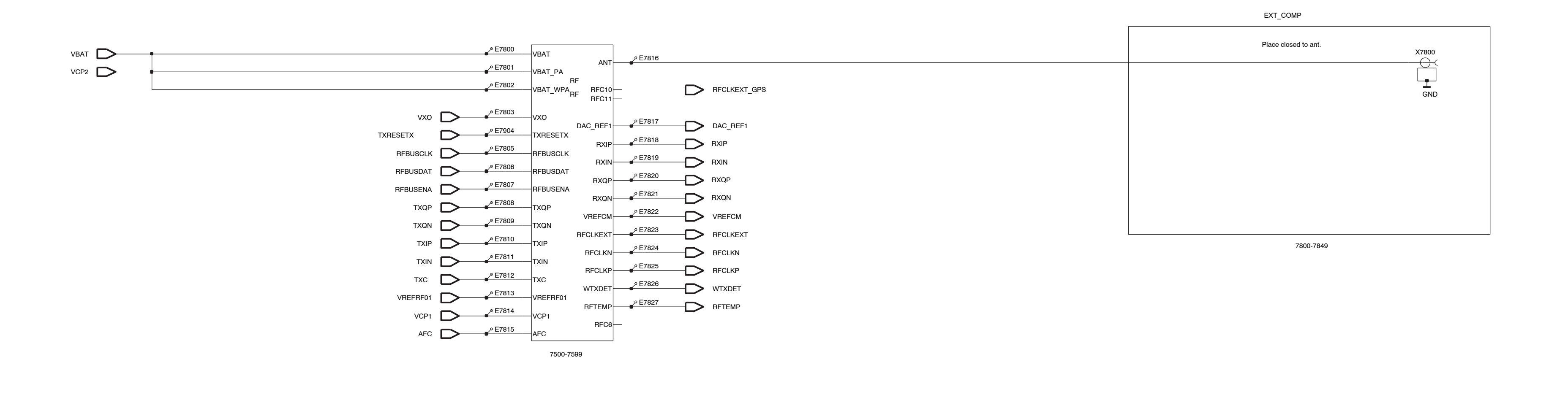

7
6
6
4
5
5
4
4
3
3
2
2
1
1
0
0
INTUSB(8:0)
USB_CMT(8:0)


PUSL(7:0)
4
APESleepX
GND

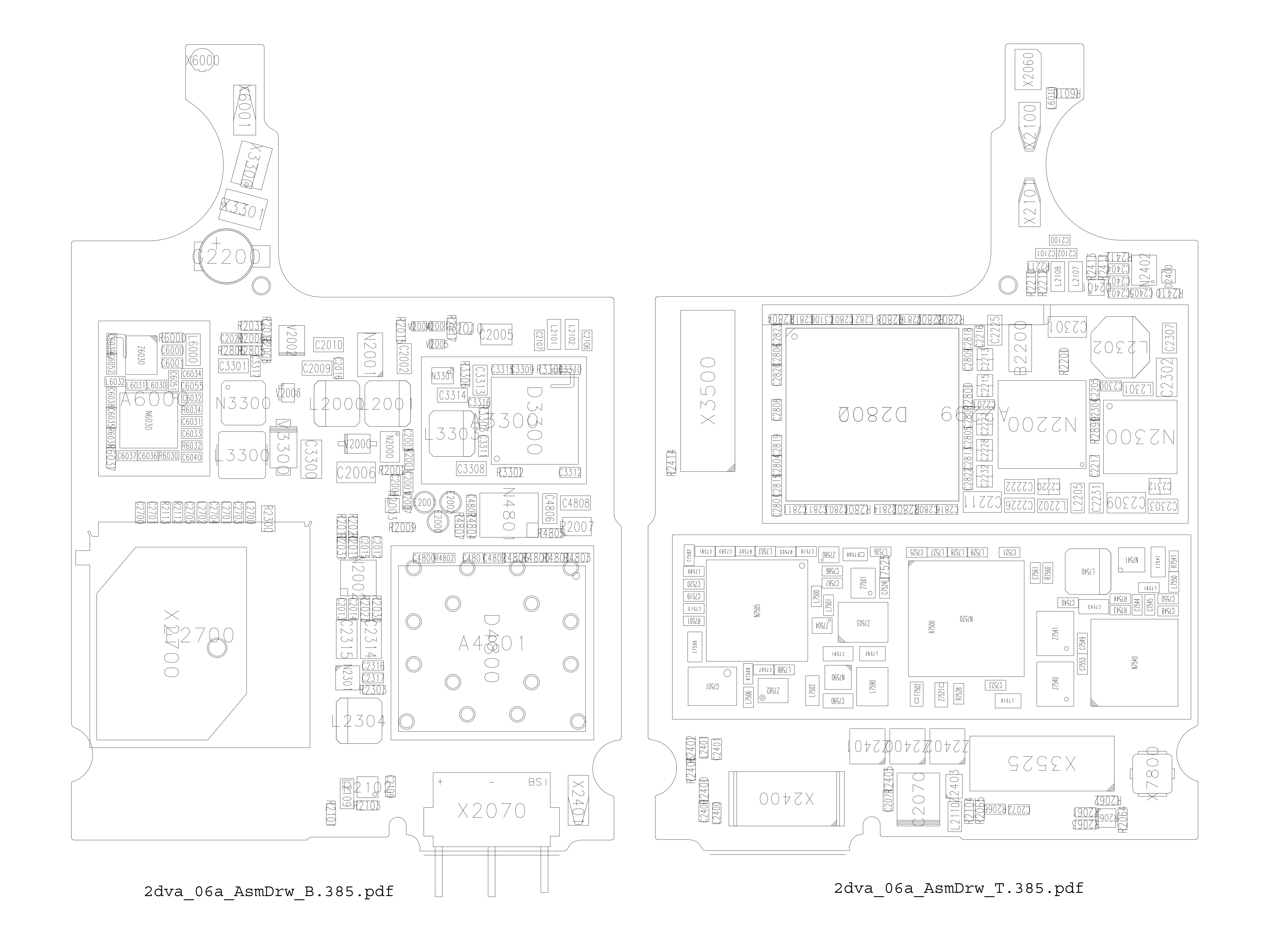

CBB5X
TOP SHEET
RFCLK_I(1:0)
RFCLK(1:0)
LPRFCLK_I
LPRFCLK
GPSCLK
RFCONV_I(11:0)
RFCONV(11:0)
RFCTRL_I(8:0)
RFCTRL(8:0)
TXCCONV_I(1:0)
TXCCONV(1:0)


VBAT
VRCP1
VR1
VREF
0
1
2
3
RFPWR(4:0)



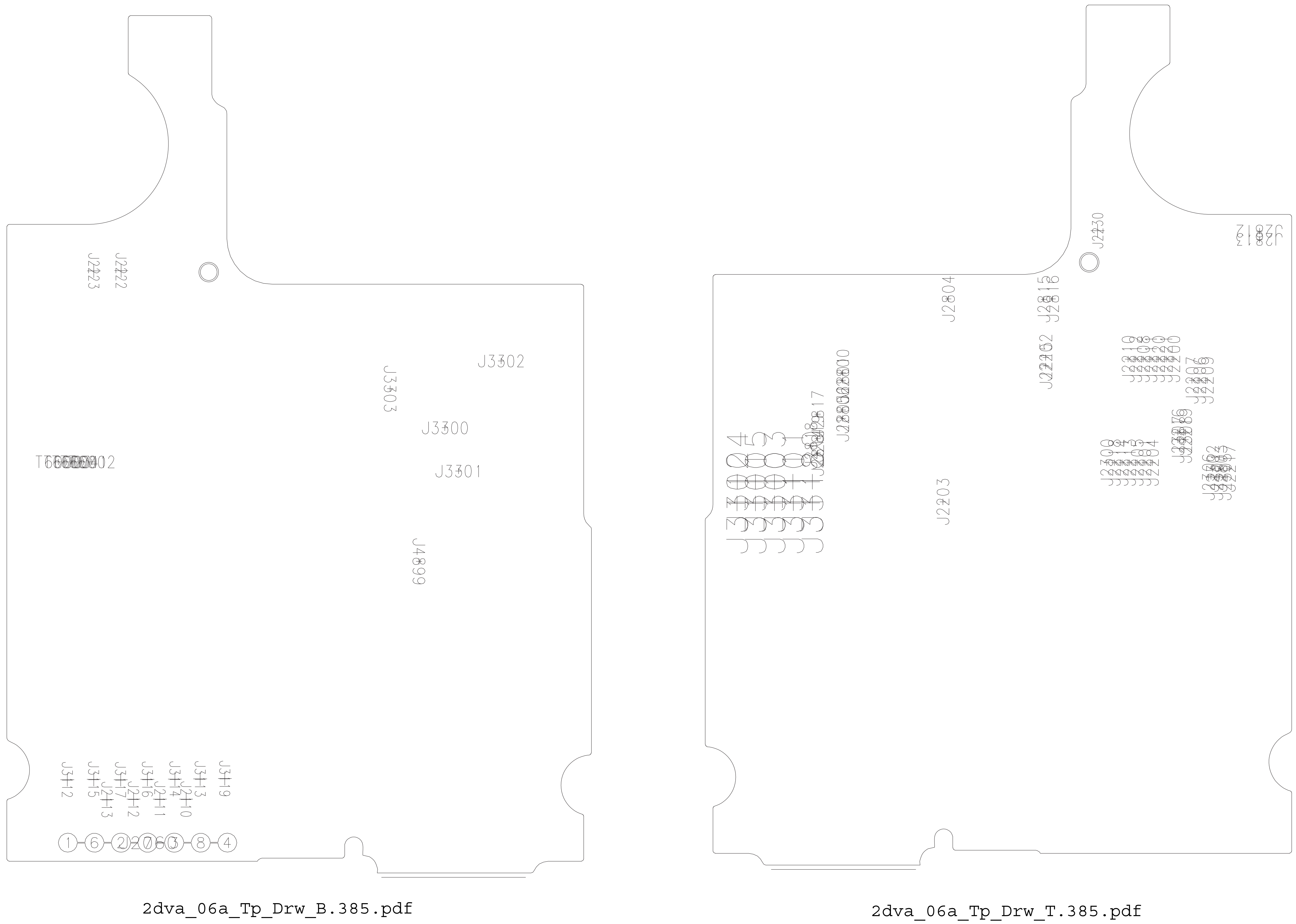


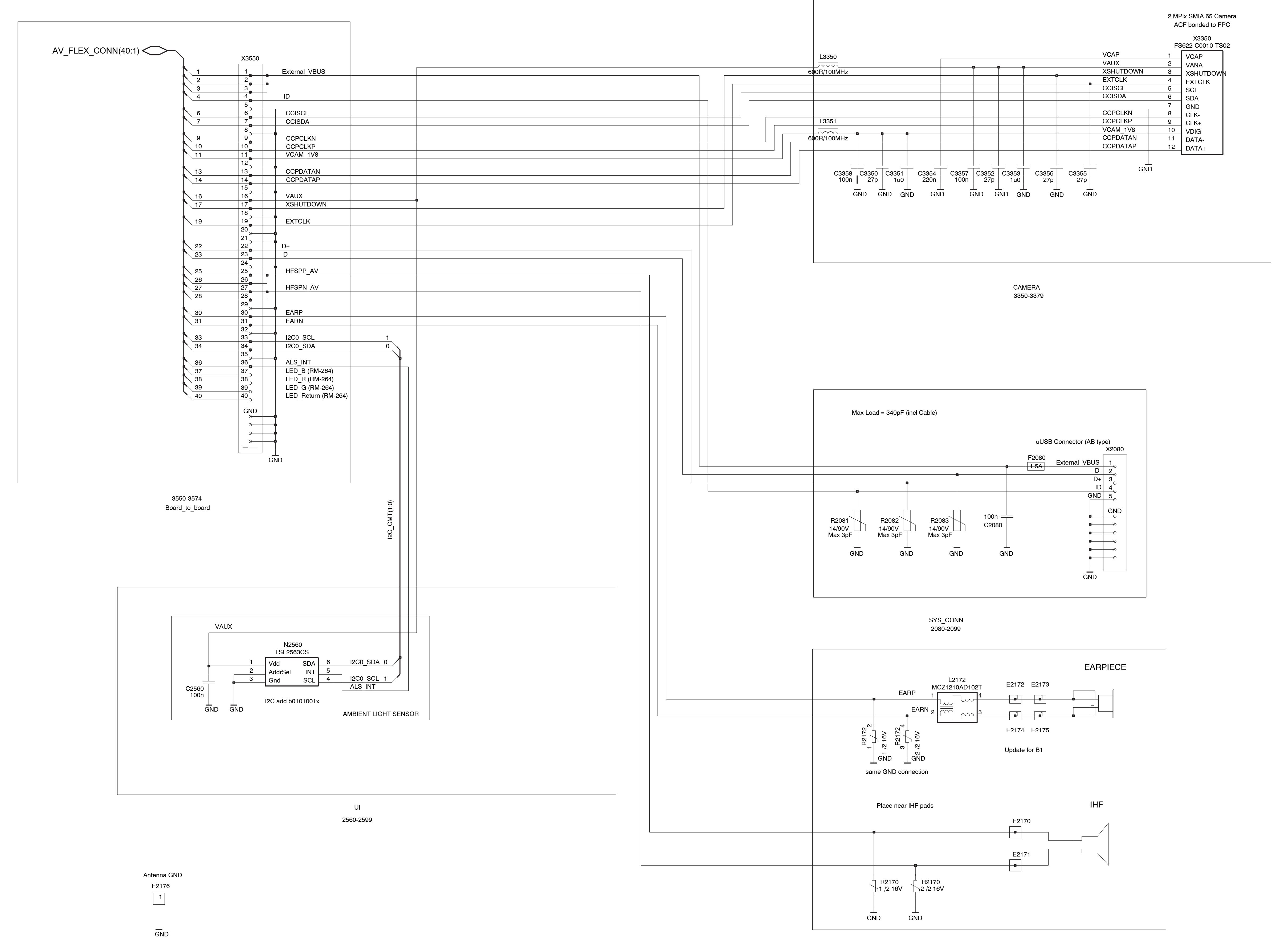
VBAT
VCP2
E7800
VBAT
E7801
VBAT_PA
E7802
VBAT_WPA
RF
RF
ANT
E7816
RFC10
RFC11
RFCLKEXT_GPS
VXO
E7803
VXO
TXRESETX
E7904
TXRESETX
RFBUSCLK
E7805
RFBUSCLK
RFBUSDAT
E7806
RFBUSDAT
RFBUSENA
E7807
RFBUSENA
TXQP
E7808
TXQP
TXQN
E7809
TXQN
TXIP
E7810
TXIP
TXIN
E7811
TXIN
TXC
E7812
TXC
VREFRF01
E7813
VREFRF01
VCP1
E7814
VCP1
AFC
E7815
AFC
DAC_REF1
E7817
DAC_REF1
RXIP
E7818
RXIP
RXIN
E7819
RXIN
RXQP
E7820
RXQP
RXQN
E7821
RXQN
VREFCM
E7822
VREFCM
RFCLKEXT
E7823
RFCLKEXT
RFCLKN
E7824
RFCLKN
RFCLKP
E7825
RFCLKP
WTXDET
E7826
WTXDET
RFTEMP
E7827
RFTEMP
RFC6
7500-7599
EXT_COMP
Place closed to ant.
X7800
GND
7800-7849



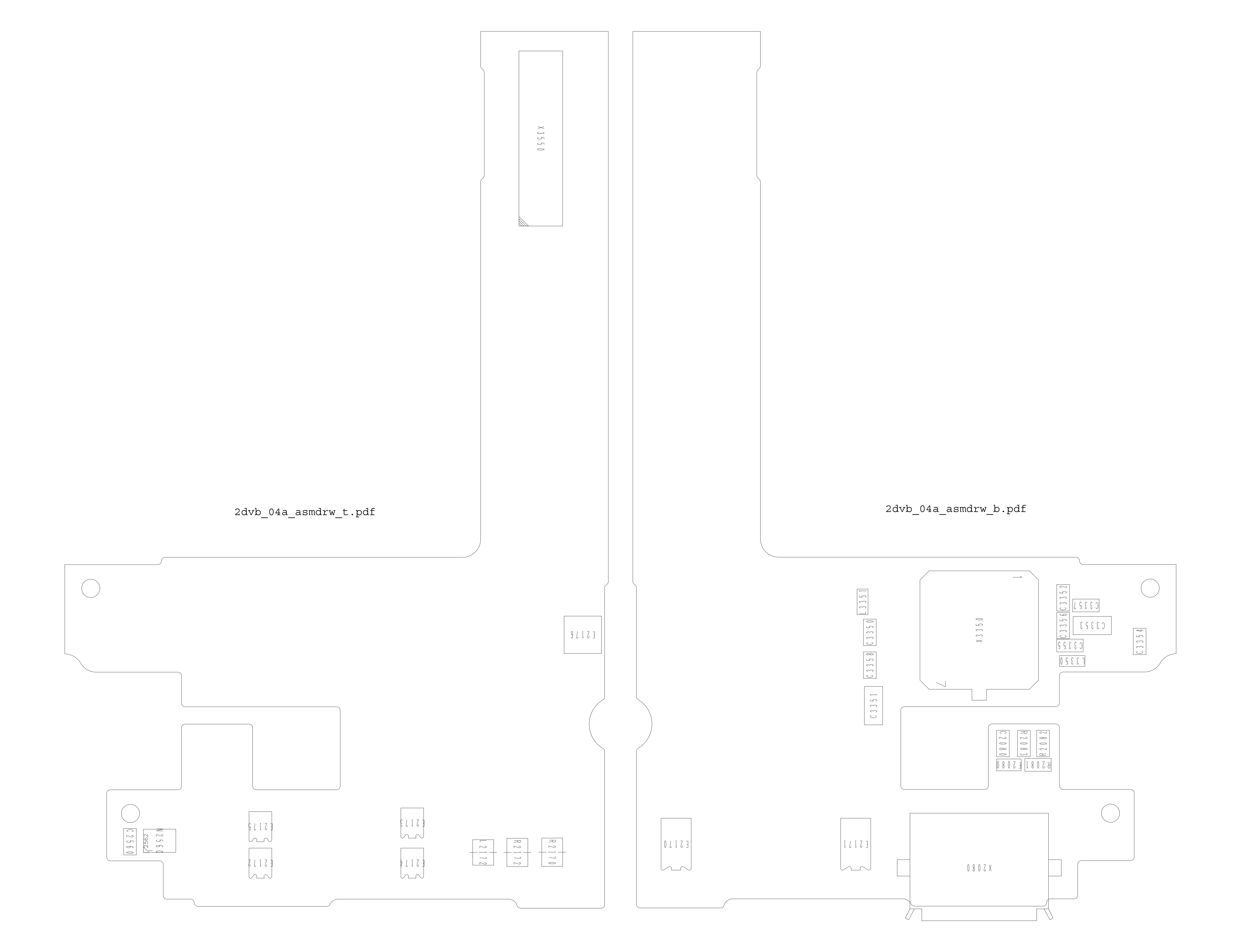
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2dva_06a_AsmDrw_T.385.pdf

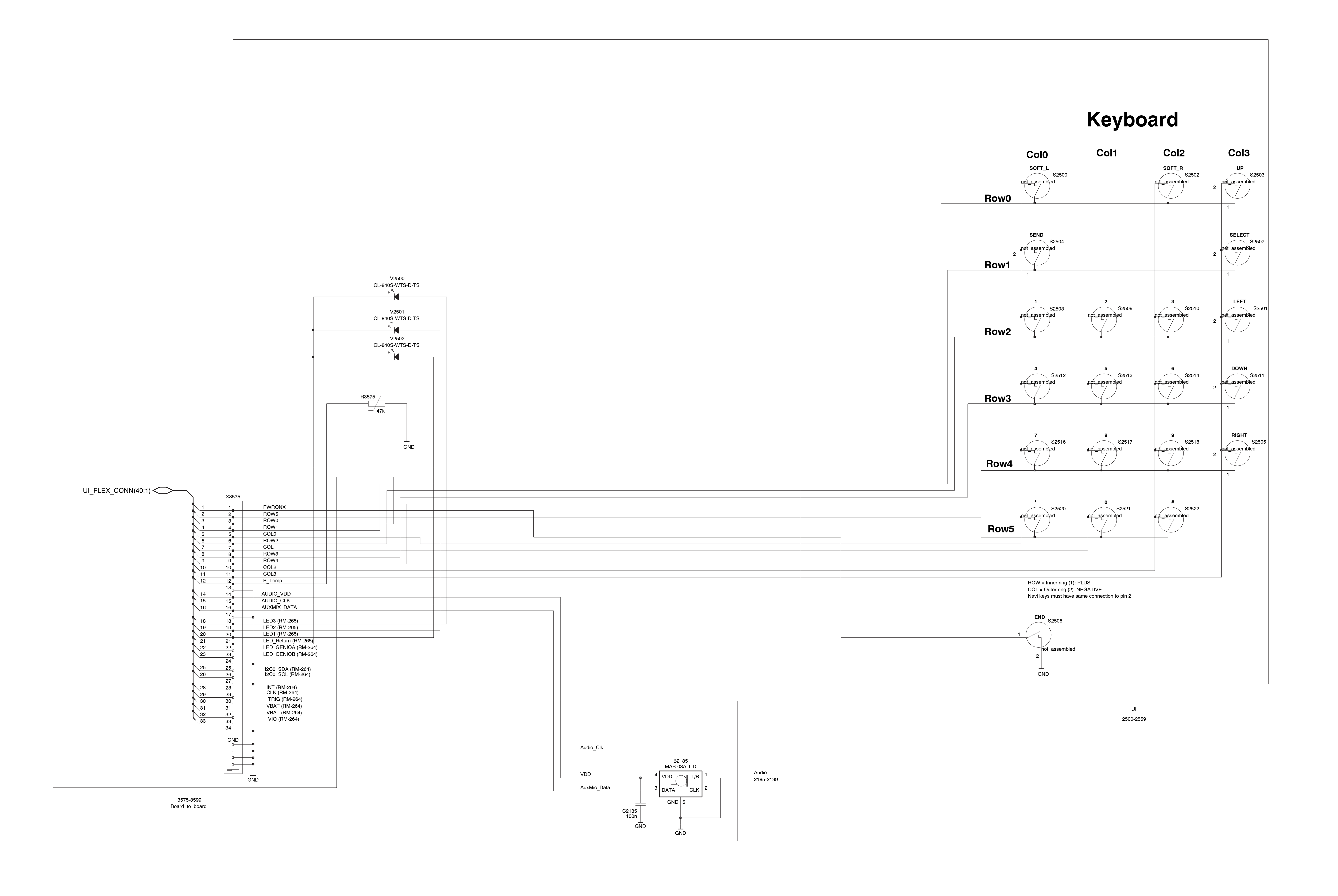

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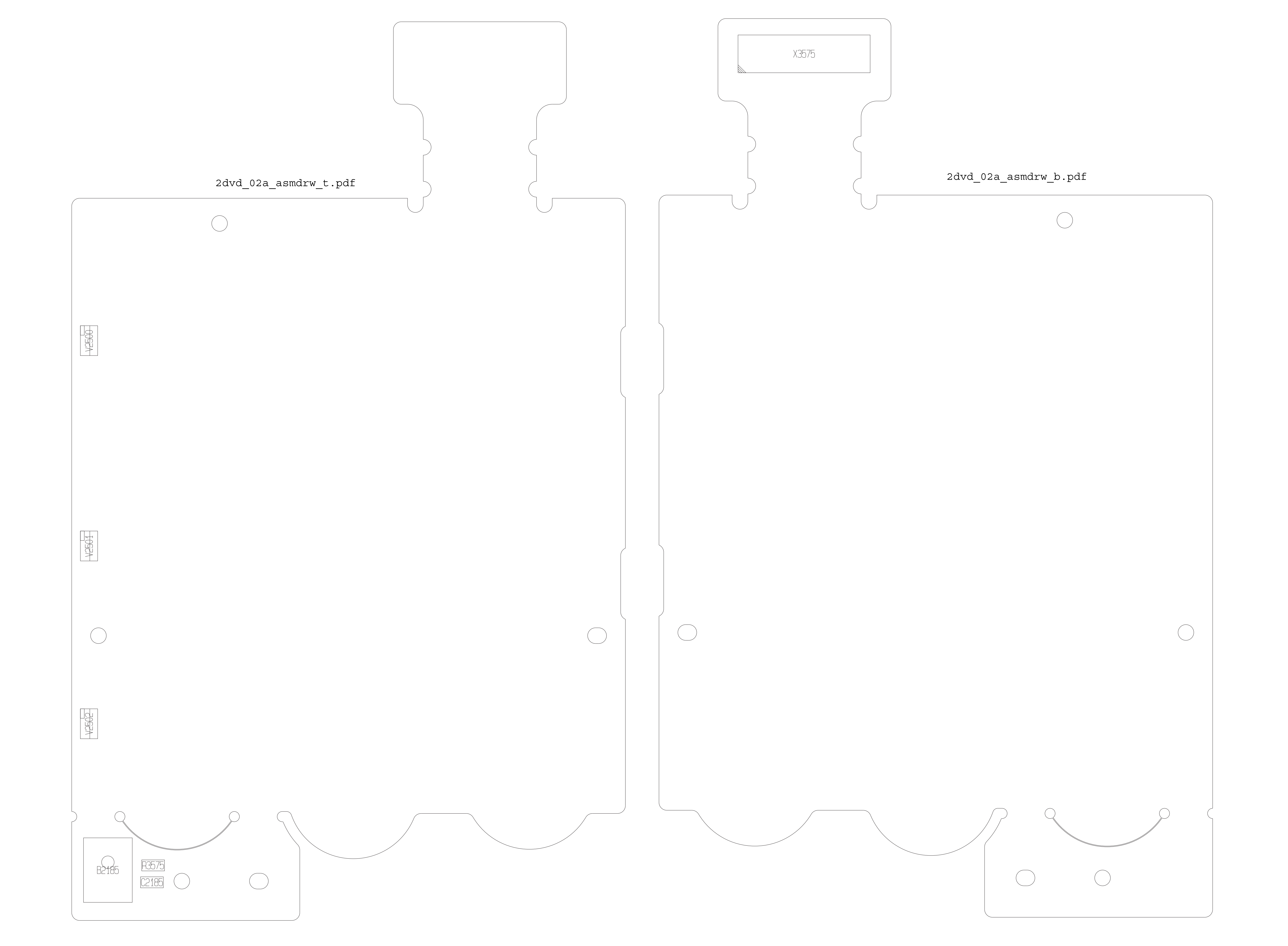


AV_FLEX_CONN(40:1)
X3550
External_VBUS
ID
CCISCL
CCISDA
CCPCLKN
CCPCLKP
VCAM_1V8
CCPDATAN
CCPDATAP
VAUX
XSHUTDOWN
EXTCLK
D+
D-
HFSPP_AV
HFSPN_AV
EARP
EARN
I2C0_SCL
I2C0_SDA
ALS_INT
LED_B (RM-264)
LED_R (RM-264)
LED_G (RM-264)
LED_Return (RM-264)
GND
3550-3574
Board_to_board
I2C_CMT(1:0)
2 MPix SMIA 65 Camera
ACF bonded to FPC
X3350
FS622-C0010-TS02
L3350
600R/100MHz
L3351
600R/100MHz
VCAP
VANA
SCL
SDA
CLK-
CLK+
VDIG
DATA-
DATA+
C3358 100n
C3350 27p
C3351 1u0
C3354 220n
C3357 100n
C3352 27p
C3353 1u0
C3356 27p
C3355 27p
CAMERA
3350-3379
Max Load = 340pF (incl Cable)
uUSB Connector (AB type)
X2080
F2080
1.5A
100n
C2080
R2081 14/90V Max 3pF
R2082 14/90V Max 3pF
R2083 14/90V Max 3pF
SYS_CONN
2080-2099
VAUX
N2560
TSL2563CS
Vdd
AddrSel
Gnd
SDA
INT
SCL
C2560
100n
I2C add b0101001x
AMBIENT LIGHT SENSOR
UI
2560-2599
EARPIECE
L2172
MCZ1210AD102T
E2172
E2173
E2174
E2175
R2172
/2 16V
Update for B1
same GND connection
Place near IHF pads
IHF
E2170
E2171
R2170
1 /2 16V
2 /2 16V
AUDIO
2170-2184
Antenna GND
E2176

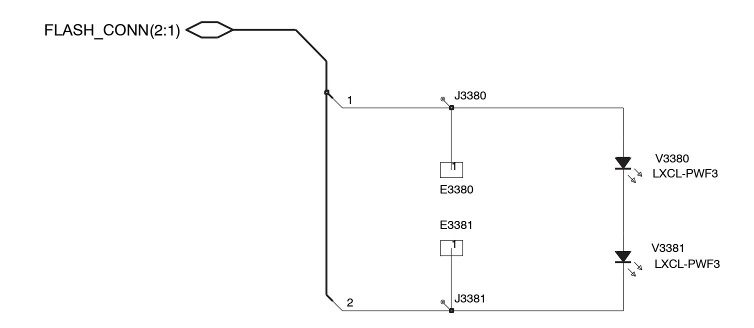


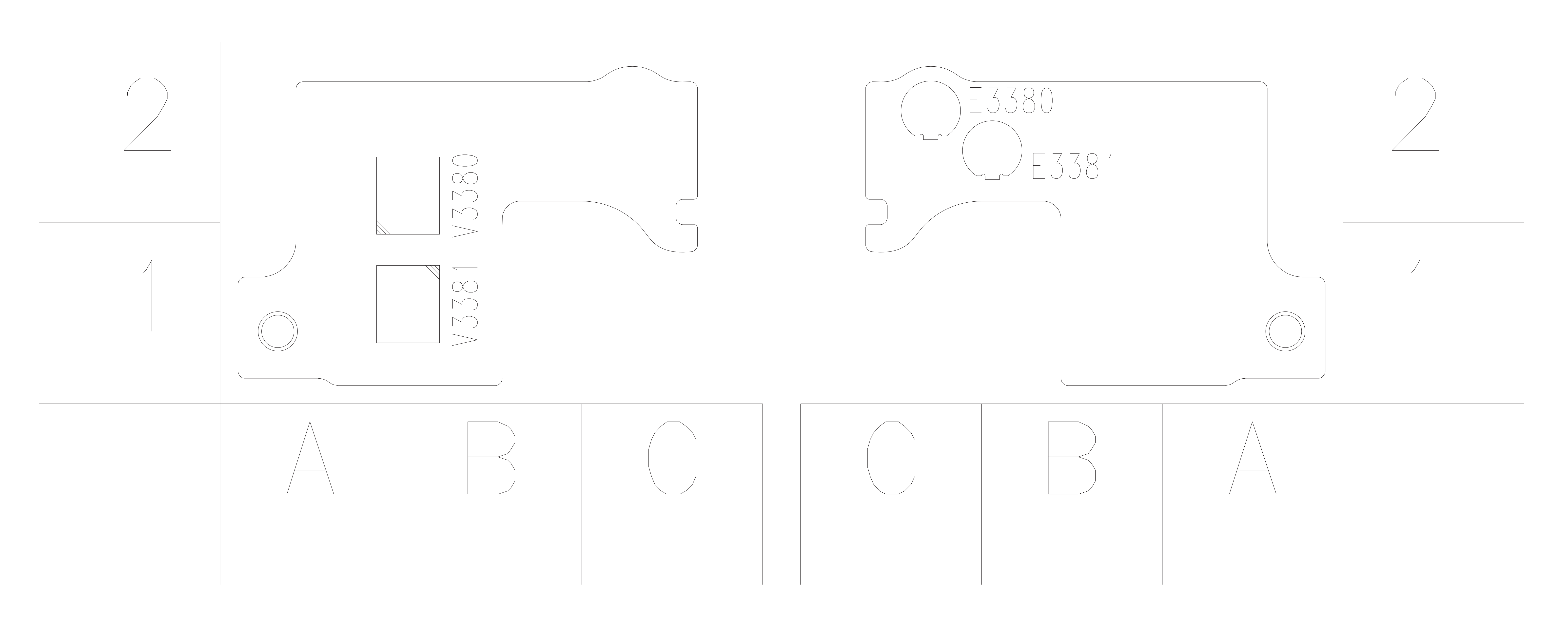
2dvb_04a_asmdrw_t.pdf
X3550
E2176
C2560
N2560
2562
E2175
E2172
E2173
E2174
L2172
R2172
R2170
2dvb_04a_asmdrw_b.pdf
L3351
C3350
C3358
C3351
X3350
C3352
C3357
C3356
C3353
C3355
C3354
L3350
C2080
R2083
R2082
F2080
R2081
E2170
E2171
X2080


Keyboard
Col0
Col1
Col2
Col3
SOFT_L
S2500
not_assembled
SOFT_R
S2502
UP
S2503
Row0
SEND
S2504
SELECT
S2507
Row1
1
S2508
2
S2509
3
S2510
LEFT
S2501
Row2
4
S2512
5
S2513
6
S2514
DOWN
S2511
Row3
7
S2516
8
S2517
9
S2518
RIGHT
S2505
Row4
*
S2520
0
S2521
#
S2522
Row5
ROW = Inner ring (1): PLUS
COL = Outer ring (2): NEGATIVE
Navi keys must have same connection to pin 2
END
S2506
not_assembled
GND
UI
2500-2559
V2500
CL-840S-WTS-D-TS
V2501
CL-840S-WTS-D-TS
V2502
CL-840S-WTS-D-TS
R3575
47k
GND
UI_FLEX_CONN(40:1)
X3575
PWRONX
ROW5
ROW0
ROW1
COL0
ROW2
COL1
ROW3
ROW4
COL2
COL3
B_Temp
AUDIO_VDD
AUDIO_CLK
AUXMIX_DATA
LED3 (RM-265)
LED2 (RM-265)
LED1 (RM-265)
LED_Return (RM-265)
LED_GENIOA (RM-264)
LED_GENIOB (RM-264)
I2C0_SDA (RM-264)
I2C0_SCL (RM-264)
INT (RM-264)
CLK (RM-264)
TRIG (RM-264)
VBAT (RM-264)
VBAT (RM-264)
VIO (RM-264)
GND
3575-3599
Board_to_board
Audio_Clk
VDD
AuxMic_Data
B2185
MAB-03A-T-D
VDD
DATA
L/R
CLK
GND
C2185
100n
Audio
2185-2199



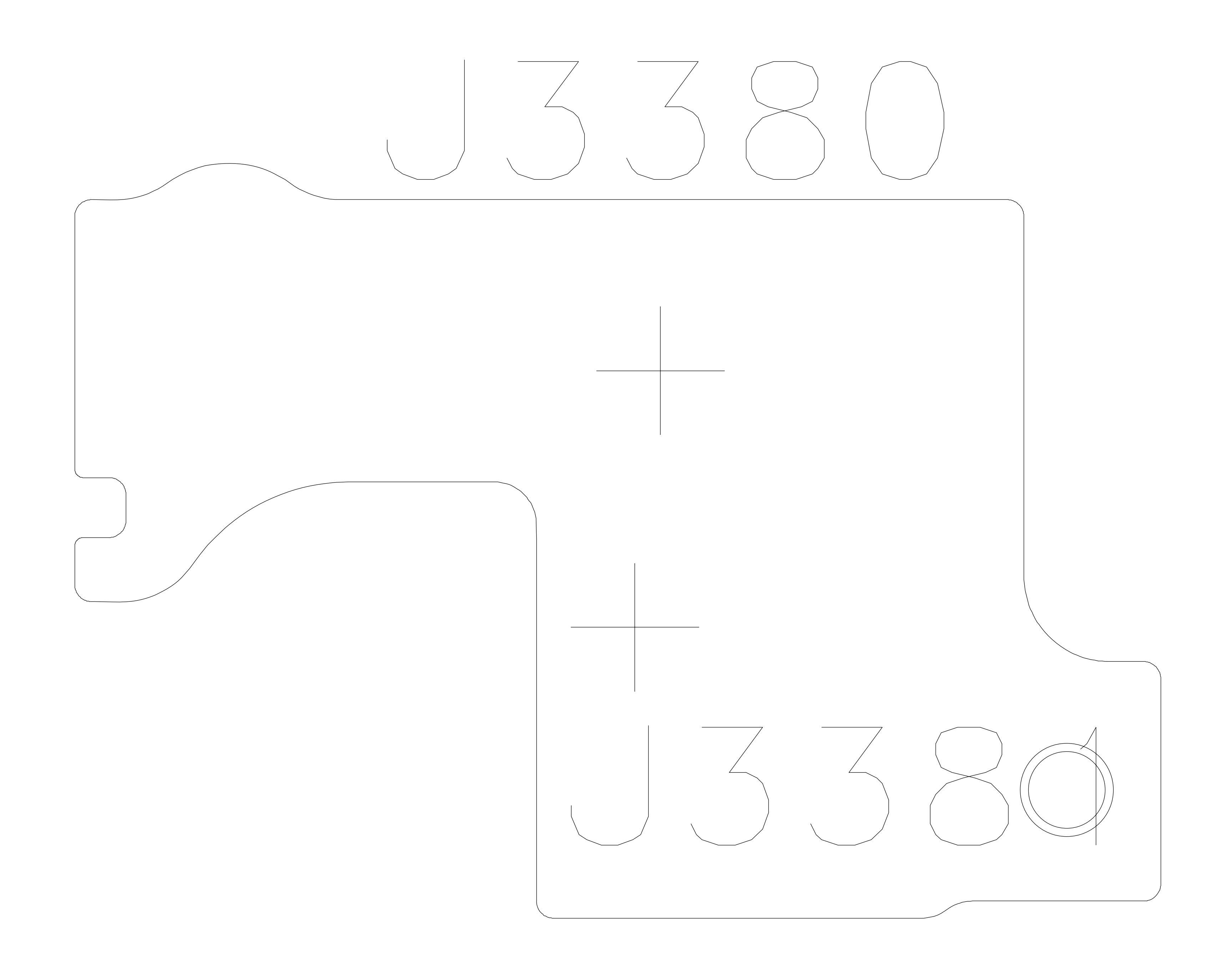
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V2500
V2501
V2502
B2185
R3575
C2185
X3575
2dvd_02a_asmdrw_b.pdf


FLASH_CONN(2:1)
1
J3380
V3380
LXCL-PWF3
1
E3380
E3381
1
V3381
LXCL-PWF3
2
J3381



2dvf_02a_AsmDrw_T.15.pdf

2dvf_02a_AsmDrw_B.15.pdf


J3380
J3380